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“Science is the only true guide in life”

Mustafa Kemal ATATÜRK (1881-1938)

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On the Noctuidae fauna of Bahçesaray district (Van Province, East Turkey) (Lepidoptera)

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Abstract: On the Noctuidae fauna of Bahçesaray district (Van Province, East Turkey) (Lepidoptera). *Priamus* 14 (1): 1-74, 30 figs. 56 maps.

This paper deal with the Noctuidae fauna of Bahçesaray district in Van Province of Turkey. Totally 165 species are listed alphabetically, together with their synonyms, original references, and distributional information as codes. Auto-ecological data to each species are added. Four selected habitats are illustrated, their faunal compositions are listed. Observational information in nature are illustrated. Male genitalia, tympanal organ, and abdominal scent organ of some species are also given. Totally 56 triad distributional maps are added. Together with the previous contributions, all the species are new to the district. Among them, 19 species are new to Van Province.

Key words: Noctuidae, Lepidoptera, Bahçesaray, Van, Turkey.

Bahçesaray is one of the most mountainous district of Van Province in East Turkey. It is located at southern part of Van Lake among the districts Gevaş, Çatak, Pervari, and Hizan. The flora of Bahçesaray was investigated and published by Fırat (2002).² He listed more than 900 species from the district. Although its fauna hasnot been studied so far, it can be easily said that Bahçesaray is one of the richest district from the entomo-faunistical standpoint in the region.

In May 2016, the authors planned privately to study here. The initiary spring excursions were published by the authors (Kemal & Koçak, 2016, Kemal, Koçak & Ecer, 2016, Kemal et al., 2016). Until the snow fall in late October 2016, the authors realized 13 excursions to Bahçesaray, and obtained very interesting findings. The present paper is the first comprehensive result, containing 165 species of the family Noctuidae.³ Together with the previous contributions, the noctuid species mentioned are new to Bahçesaray fauna. Among them, 19 species are new records

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² <http://www.biyolojigitim.vyu.edu.tr/nasip/memetfiratez%20%20.pdf>

³ As the supra-generic classification is under investigation currently, the family is treated here according to the classical sense.

to the fauna of Van province. Next publications will be about the Geometridae and other larger moths, the Micro-lepidoptera, the butterflies and other pterygot groups recorded in the district.

In the text below, the species recorded are arranged alphabetically, together with their synonyms. Original references are given to most of the species. Distributinal information are explained as codes 4, like **TR** - Turkey, **IL** - Israel, **IQ** - Iraq, **IR** - Iran, **Elb** - Elburs Mts. The provinces in Turkey are mentioned by numbers between **01-81**. For example **65** indicates Van Province. **65A** is Bahçesaray. The codes of all the visited localities in Bahçesaray begins with **65A**.

The collecting localities in Bahçesaray and their codes are given below:

65A Bahçesaray [Mıks, Mukus] (38°08'N 42°48'E)
65Aa Bahçesaray city 1630m (38°08'N 42°49'E)
65Ab Karabel [Krapet] geçidi, 2800-3000m (38°09'03"N 42°55'37"E)
65Aba Karabel [Krapet] geçidi, 2820m (38°09'10"N 42°52'50"E)
65Abb Karabel [Krapet] geçidi, çeşme 2740m (38°09'08"N 42°52'41"E)
65Ac Liman (38°08'23"N 42°50'11"E)
65Ac1 Liman village 1900m (38°08'23"N 42°50'11"E)
65Ac2 Liman upper height, 2200m (38°08'52"N 42°51'00"E)
65Ac3 Liman, Spindaran (Kavaklık) 2320m (38°08'17"N 42°51'21"E)
65Ac4 Liman altı 1680m (38°08'30"N 42°48'47"E)
65Ad Kırmızıköprü, 1580m (38°05'37"N 42°47'13"E)
65Af Kaşıkçılar 2070m
65Ag Kartal 1695m (38°02'32"N 42°45'27"E)
65Ah Güneyyamaç W, 1825m (38°02'02"N 42°45'52"E)
65Ai Paşaköy 1580-1650m (38°04'07"N 42°46'33"E)
65Aj Özbeyli Mezra, Imamlı köyü 2610m (38°01'13"N 42°49'53"E)
65Am Upper Mukus valley 1685-1900m
65Am1 Upper Mukus valley 1785m (38°09'18"N 42°48'27"E)
65Am2 Upper Mukus valley, Cave 1800m (38°09'56"N 42°48'32"E)
65Am3 Upper Mukus valley 1850m (38°10'23"N 42°48'16"E)
65Am4 Upper Mukus valley 1840m (38°10'10"N 42°48'27"E)
65An Bahçesaray Vasting 1615m (38°06'11"N 42°48'49"E)
65Ao Kasr (Köşkköy)
65Ap NE of İhtiyartaş Pass 2270m (38°07'47"N 42°40'54"E)
65Aq Garip 2300m (65 TR) (38°02'14"N 42°48'26"E)
65Ar Şişli S., 1700m (38°05'51"N 42°45'25"E)
65As Bağcılar NE 2040m (38°03'28"N 42°47'45"E)
65At Altındere valley (general) 1820-2140m
65At1 Altındere 1980m (38°05'12"N 42°53'17"E)
65At2 Altındere N, caves 1920m (38°05'53"N 42°53'08"E)
65At3 Altındere NW 1820m (38°06'13"N 42°52'29"E)
65At4 Altındere SE 2160m (38°04'46"N 42°54'06"E)
65At5 Altındere NW 1935m (38°06'10"N 42°52'52"E)
65Au Kırmızıköprü 2km SW 1540m (38°04'39"N 42°47'07"E)
65Aç Meteo- Krapet 2570m (38°08'47"N 42°51'27"E)
65Aö Mukus Su Fabrikası 1570m (38°05'33"N 42°48'07"E)

About some studying areas in the district are given below:

Paşaköy (65Ai) (Fig.1). Degraded Quercus woodland on the slopes of shale rocks. At the bottom of the valleys, a small mountain stream runs all the season. Salix and Populus relatively rich, while Crataegus, Rosa and Rubus rather sporadic.

⁴ The full list and codes, used in the Cesa publications are freely downloadable from the following address:
<http://www.members.tripod.com/entcesa/Code.pdf>



Fig. 1 – Paşaköy, a narrow valley, with sedimentary shales on the slopes (65Ai), 9 May 2016, M Kemal (Cesa)

Various places between 1580-1650m have been studied by day and by night between May and October. Some moth species recorded here are as follows;

Adelidae: *Nemophora fasciella* (Fabricius, 1775). **Arctiidae:** *Arctia* (*Epicallia*) *marchandi* De Freina, 1983, *Euplagia quadripunctaria* (Poda, 1761), *Euplagia splendidior* (Tams, 1922), *Paidia* (s.str.) *rica* (Freyer, [1855])... **Autostichidae:** *Apiletria endoperca* (Meyrick, 1936). **Cimeliidae:** *Axia* (*Epicimelia*) *theresia* (Korb, 1900). **Cossidae:** *Dyspessa ulula* (Borkhausen, 1790). **Drepanidae:** *Cilix asiatica* A. Bang-Haas, 1907, *Watsonalla binaria* (Hufnagel, 1767). **Gelechiidae:** *Aroga aristotelis* (Millière, 1876), *Recurvaria leucatella* (Linnaeus, 1761). **Geometridae:** *Aplasta ononaria* (Fuessly, 1783), *Aplocera plagiata* (Linnaeus, 1758), *Ascotis selenaria* ([Denis & Schiffermüller], 1775), *Cataclyme riguata* (Hübner, [1813]), *Catarhoe permixtaria* (Guenée, [1858]), *Chloroclysta miata* (Linnaeus, 1758), *Costaconvexa polygrammata* (Borkhausen, 1794), *Crocallis* (s.str.) *loebeli* Stadie & Fiebig, 2014... **Lasiocampidae:** *Lasiocampa grandis* (Rogenhofer, 1891), *Pachypasa otus* (Drury, [1773])... **Lecithoceridae:** *Eurodachtha nigralba* Gozmany, 1978. **Noctuidae:** *Acronicta* (*Viminia*) *rumicis* (Linnaeus, 1758), *Amphipyra* (s.str.) *stix* Herrich-Schäffer, [1850], *Catocala* (*Mormonia*) *sponsa* (Linnaeus, 1767), *Chazaria incarnata* (Freyer, 1838), *Chloantha hypericii* (Fabricius, 1787), *Clytie* (s.str.) *syriaca* (Bugnion, 1837), *Colobochyla* (*Caspicastra*) *platyzona* (Lederer, 1870), *Cornutiplusia circumflexa* (Linnaeus, 1767), *Cosmia* (*Calymnia*) *trapezina* (Linnaeus, 1758), *Cryphia* (*Bryophila*) *occidentalis* (Osthelder, 1933), *Cryphia* (s.str.) *recepticula* (Hübner, [1803]), *Dichagyris* (*Albocosta*) *flammatra* ([Denis & Schiffermüller], 1775), *Dichagyris* (*Yigoga*) *negrescens* (Hofner, 1888), *Dichagyris* (*Yigoga*) *sincera* (De Freina & Hacker, 1985), *Dichagyris* (s.str.) *erubescens* (Staudinger, 1892), *Dichagyris* (s.str.) *singularis* (Staudinger, 1877), *Dicycla* *oo* (Linnaeus, 1758), *Drasteria cailino* (Lefèbvre, 1827), *Epilecta linogrisea* ([Denis & Schiffermüller], 1775), *Eublemma* (*Glossodice*) *polygrammum* (Duponchel, [1842]), *Eublemma* (*candidana-gr.*) *pulchralis* (De Villers, 1789), *Euchalcia dorsiflava* (Standfuss, 1892), *Euclidia glyphica* (Linnaeus, 1758), *Eugnorisma* (*Metagnorisma*) *pontica* (Staudinger, 1892), *Eugnorisma* (s.str.) *insignata* (Lederer, 1853), *Gortyna* (*Cervyna*) *cervago* Eversmann, 1844, *Gortyna* (s.str.) *osmana* Hacker & Kuhna, 1986, *Hadena* (*Enterpia*) *roseocandida* (Hacker, 1996), *Hadena* (s.str.) *compta* ([Denis & Schiffermüller], 1775), *Hadena* (s.str.) *magnolii* (Boisduval, 1828), *Hadena* (s.str.) *pfeifferi* (Draudt, 1934), *Haemerosia renalis* (Hübner, [1813]), *Hecatera bicolorata* (Hufnagel, 1766), *Helicoverpa armigera* (Hübner, [1808]), *Hypena munitalis* Mann, 1861, *Lithophane ornitopus* (Hufnagel, 1766), *Lygephila* (s.str.) *amasina* (Staudinger, 1879), *Meganola gigantula* (Staudinger, 1879), *Mesogona acetosellae* (Goeze, 1781), *Noctua* (*Euschesis*) *janthina* ([Denis & Schiffermüller], 1775), *Noctua* (*Lampra*) *fimbriata* (Schreber, 1759), *Ophiura lunaris* (Goeze, 1781), *Periphanes* (*Helivictoria*) *victorina* (Sodoffsky, 1849), *Plecoptera inquinata* (Lederer, 1857), *Polymixis* (s.str.) *rufocincta* (Geyer, 1828), *Rhyacia* (s.str.) *lucipeta* ([Denis & Schiffermüller], 1775), *Sideridis* (*Aneda*) *rivularis* (Fabricius, 1775), *Sideridis* (*Luteohadena*) *luteago* ([Denis & Schiffermüller], 1775), *Tholera hilaris* (Staudinger, 1901),

Trichoplusia ni (Hübner,[1803]), *Ulochlaena hirta* (Hübner,[1813]), *Xylota exsoleta* (Linnaeus,1758), *Zekelita* (*Rhynchodontodes*) *antiqualis* (Hübner,[1809]). **Notodontidae:** *Drymonia velitaris* (Hufnagel,1766), *Furcula interrupta* (Christoph,1867), *Harpyia milhauseri* (Fabricius,1775)... **Oecophoridae:** *Borkhausenia einsleri* Amsel,1935, *Pleurota* (s.str.) *eximia* Lederer,1861. **Pterophoridae:** *Platyptilia gonodactyla* ([Denis & Schiffermüller],1775)... **Pyralidae:** *Acrobasis repandana* (Fabricius,1798), *Acrobasis tumidana* ([Denis & Schiffermüller],1775), *Agriphila tolli* (Bleszynski,1952), *Asalebria* (s.str.) *geminella* (Eversmann,1844)... **Scythridae:** *Scythris* (*scopolella*-gr.) *apicalis* (Zeller,1847). **Sesiidae:** *Negotinthia hoplisiformis* (Mann,1864). **Sphingidae:** *Hemaris* (*Cochrania*) *croatica* (Esper,[1779]), *Laothoe populeti* (Bienert,[1870]), *Marumba quercus* ([Denis & Schiffermüller],1775)... **Thyatiridae:** *Polyplocia korbi* Rebel,1901. **Tortricidae:** *Aethes confinis* Razowski,1974, *Aethes hartmanniana* (Clerck,1759), *Aphelia* (*Zelotheres*) *ferugana* (Hübner,1793)... **Urodidae:** *Wockia asperipunctella* (Bruand,1850). **Yponomeutidae:** *Eidophasia hufnagelii* (Zeller,1839)... **Zygaenidae:** *Zygaena* (s.str.) *filipendulae* (Linnaeus,1758)...

Upper Mukus Valley (65Am) (Fig.2). Four different places, coded as 65Am1, 65Am2, 65Am3, and 65Am4, between the elevations 1785-1850m, in this valley have been studied by day and by night from May to October.



Fig. 2 – Upper Mukus valley (65Am), with sedimentary conglomerate rocky slopes, 24 October 2016, M Kemal (Cesa)

Some moth species recorded here are as follows;

Adelidae: *Nemophora fasciella* (Fabricius,1775). **Arctiidae:** *Andala semiramis* (Staudinger,1892), *Arctia* (*Epicallia*) *marchandi* De Freina,1983, *Arctia* (*Eucharia*) *festiva* (Hufnagel,1766), *Euplagia splendidior* (Tams,1922), *Tyria jacobaeae* (Linnaeus,1758)... **Cimeliidae:** *Axia* (*Epicimelia*) *theresia* (Korb,1900). **Ethmiidae:** *Ethmia hakkarica* Koçak,1986, *Ethmia pusiella* (Linnaeus,1758), *Ethmia similis* Sattler,1967, *Ethmia tripunctella* (Staudinger,1879). **Gelechiidae:** *Nothris gregersenii* Karsholt & Sumpich,2015, *Nothris verbascella* ([Denis & Schiffermüller],1775). **Geometridae:** *Aplocera obsitaria* (Lederer,1853), *Aplocera plagiata* (Linnaeus,1758), *Cataclysmia rigata* (Hübner,[1813]), *Chesistege korbi* (Bohatsch,1910), *Coenoteophria ablutaria* (Boisduval,1840), *Colotois pennaria* (Linnaeus,1761), *Dasycorsa modesta* (Staudinger,1879), *Docirava mundulata* (Guenée,[1858]), *Drepanopterula limaria* (Christoph,1885) ... **Lasiocampidae:** *Phyllodesma* (s.str.) *tremulifolium* (Hübner,[1810]). **Lemoniidae:** *Lemonia pia* Püngeler,1902. **Lymantriidae:** *Polymona lapidicola* (Herrich-Schäffer,[1852]). **Noctuidae:** *Abrostola clarissa* (Staudinger,1900), *Acontia* (*Uracontia*) *titania* (Esper,[1798]), *Acronicta* (*Viminia*) *auricoma* (Fabricius,1787), *Agrochola* (*Alpichola*) *janhillmanni* Hacker & Moberg,1989, *Agrochola* (*Anchoscelis*) *kindermannii* (Fischer v. Röslerstamm,[1841]), *Agrochola* (*Anchoscelis*) *luteogrisea* (W.Warren,1911), *Agrochola* (*Frivaldskyola*) *mansueta* (Herrich-Schäffer,[1850]), *Agrotis* (s.str.) *exclamationis* (Linnaeus,1758), *Allophyes* (s.str.) *asiatica* (Staudinger,1892), *Amphipyra* (s.str.) *stix* Herrich-Schäffer,[1850], *Antitype jonis* (Lederer,1865), *Autophila* (*Cheirophanes*) *chamaephanes* Boursin,1940, *Autophila* (*Cheirophanes*) *ligaminosa* (Eversmann,1851), *Behounekia freyeri* (Frivaldsky,1835), *Bryomima defreina* Hacker,[1987], *Callopietria latreillei* (Duponchel,1827),

Calophasia lunula (Hufnagel,1766), Calophasia opalina (Esper,[1796]), Catocala (s.str.) abacta Staudinger,1900, Catocala (s.str.) elocata (Esper,[1787]), Catocala (s.str.) mesopotamica Kuznesov,1903, Chersotis (s.str.) margaritacea (Villers,1789), Chloantha hypericii (Fabricius,1787), Cleoceris scoriacea (Esper,[1789]), Colobochyla (Caspicastra) platyzona (Lederer,1870), Cornutiplusia circumflexa (Linnaeus,1767), Cryphia (Bryophila) occidentalis (Osthelder,1933), Cryphia (Bryopsis) amasina (Draudt,1931), Dichagyris (Albocosta) flammata ([Denis & Schiffermüller],1775), Dichagyris (s.str.) amoena (Staudinger,1892), Drasteria cailino (Lefèbvre,1827), Drasteria saisani (Staudinger,1882), Dysgonia algira (Linnaeus,1767), Egira anatolica (M.Hering,1933), Epilecta linogrisea ([Denis & Schiffermüller],1775), Episema korsakovi (Christoph,1885), Episema tersa ([Denis & Schiffermüller],1775), Eublemma minutatum (Fabricius,1794), Eublemma ostrinum (Hübner,[1808]), Eublemma parvum (Hübner,[1808]), Euchalcia kitchingi Hacker & Ronkay,1992, Eugnorisma (s.str.) insignata (Lederer,1853), Eugnorisma (s.str.) kurdistan Hacker, Kuhna & Gross,[1987], Gortyna (Cervyna) cervago Eversmann,1844, Hadenia (Anepia) wolff Hacker,1992, Hadenia (Pinkercola) tephroleuca (Boisduval,1833), Hadenia (s.str.) magnolii (Boisduval,1828), Hadenia (s.str.) pfeifferi (Draudt,1934), Hadula (Calocestra) mendica (Staudinger,[1895]), Hecatera bicolorata (Hufnagel,1766), Heliothis nubigera Herrich-Schäffer,[1851], Heterophysa dumetorum (Geyer,1834), Hypena munitalis Mann,1861, Leucania loreyi (Duponchel,1827), Leucochlaena muscosa (Staudinger,1892), Luperina dumerilii (Duponchel,1826), Megalodes eximia (Freyer,1845), Metachrostis dardouini (Boisduval,1840), Metopodicha ernesti Draudt,1936, Mythimna (Hyphilare) ferrago (Fabricius,1787), Noctua (s.str.) pronuba (Linnaeus,1758), Omphalophana antirrhinii (Hübner,[1803]), Opigena polygona (Fabricius,1787), Pamparama acuta (Freyer,[1837]), Perigrapha (Opacographa) cilissa Püngeler,1917, Phlogophora meticulosa (Linnaeus,1758), Plecoptera inquinata (Lederer,1857), Polymixis (Parabrachionycha) trisignata (Ménétriés,1847), Polymixis (s.str.) crinomima (Wiltshire,1946), Polymixis (s.str.) ivanchiki Pekarsky,2012, Polymixis (s.str.) rufocincta (Geyer,1828), Polypogon schwingenschussi (Wagner,1937), Pseudenargia deleta (Osthelder,1933), Rhyacia (s.str.) simulans (Hufnagel,1766), Sideridis (Aneda) rivularis (Fabricius,1775), Sideridis (Luteohadena) luteago ([Denis & Schiffermüller],1775), Spodoptera exiguum (Hübner,[1808]), Trichoplusia ni (Hübner,[1803]), Tyta luctuosa ([Denis & Schiffermüller],1775), Ulochlaena hirta (Hübner,[1813]). **Notodontidae:** Cerura (s.str.) vinula (Linnaeus,1758), Pterostoma palpinum (Linnaeus,1761). **Pyalidae:** Aglossa pinguinalis (Linnaeus,1758), Agriphila tolli (Bleszynski,1952), Ancylosis cinnamomella (Duponchel,1836), Ancylosis sareptalla (Herrich-Schäffer,1861), Arsissa divaricella (Ragonot,1887), Arsissa ramosella (Herrich-Schäffer,[1855]), Asalebria (s.str.) geminella (Eversmann,1844), Cynaeda (s.str.) gigantea (Staudinger,1879), Dolicharthria bruguieralis (Duponchel,1833), Ecpyrrhorhoe diffusalis (Guenée,1854), Epischnia prodromella (Hübner,[1799]), Euchromius bellus (Hübner,1796), Euzopherodes charlottae (Rebel,1914), Evergestis caesialis Herrich-Schäffer,[1855], Evergestis mundalis (Guenée,1854), Hellula undalis (Fabricius,1781), Hyperlais dulcinalis (Treitschke,1835), Hypochalcia dignella (Hübner,1796), Keradere lepidella (Ragonot,1887), Metallosticha argyrogrammos (Zeller,1847)...**Sesiidae:** Chamaesphecia proximata (Staudinger,1891), **Sphingidae:** Deilephila suellus Staudinger,1878, Hyles livornica (Esper,[1780]), Rethera komarovi (Christoph,1885), Smerinthus kindermanni Lederer,1852, Sphingonaepiopsis gorgoniades (Hübner,[1819])...**Tineidae:** Wegneria panchalcella (Staudinger,1871). **Tortricidae:** Aethes beatricella (Walsingham,1898), Aethes kasyi Razowski,1962, Aethes tesserana ([Denis & Schiffermüller],1775), Aphelia (Zelotherses) ferugana (Hübner,1793)... **Urodidae:** Wockia asperipunctella (Bruand,1850). **Yponomeutidae:** Plutella (s.str.) xylostella (Linnaeus,1758). **Zygaenidae:** Adscita (s.str.) obscura (Zeller,1847), Jordanita (Lucasiterna) subsolana (Staudinger,1862), Zygaena (Agrumenia) olivieri Boisduval,1828.

Upper Liman village, Populetum, local name: Spindaran (65Ac3) (**Fig.3**). This alpine *Populus tremula* community at 2320m could be studied by day several times, but only one night in August.



Fig. 3 – Upper Liman village, Spindaran 2320m, *Populus tremula* community (65Ac3), 24 10 2016, M Kemal (Cesa)

Some moth species recorded here are as follows;

Arctiidae: *Andala semiramis* (Staudinger,1892), *Euplagia splendidior* (Tams,1922), *Manulea* (s.str.) *complana* (Linnaeus,1758)... **Cossidae:** *Cossulus argentatus* (Staudinger,1887). **Geometridae:** *Aplocera columbata* (Metzner,1845), *Aplocera obsitaria* (Lederer,1853).. **Lymantriidae:** *Polymona lapidicola* (Herrich-Schäffer,[1852]). **Noctuidae:** *Acontia* (*Uracontia*) *titania* (Esper,[1798]), *Acronicta* (*Subacronicta*) *megacephala* (Fabricius,1787), *Amphipyra* (s.str.) *micans* Lederer,1857, *Apamea* (s.str.) *ferrago* (Eversmann,1837), *Catocala* (s.str.) *lupina* Herrich-Schäffer,[1851], *Chersotis* (s.str.) *alpestris* (Boisduval,[1837]), *Chloantha hypericii* (Fabricius,1787), *Cornutiplusia circumflexa* (Linnaeus,1767), *Cryphia* (*Bryoleuca*) *raptricula* ([Denis & Schiffermüller],1775), *Dichagyris* (s.str.) *leucomelas* Brandt,1941, *Drasteria cailino* (Lefèbvre,1827), *Epilecta linogrisea* ([Denis & Schiffermüller],1775), *Eremobia asiatica* Draudt,1936, *Eublemma* (*Glossodice*) *polygrammum* (Duponchel,[1842]), *Euchalcia siderifera* (Eversmann,1846), *Euxoa* (s.str.) *scurrilis* Draudt,1937, *Hadula* (*Calocestra*) *mendax* (Staudinger,1879), *Hecatera bicolorata* (Hufnagel,1766), *Hecatera spinaciae* (Vieweg,1790), *Hypena munitalis* Mann,1861, *Mythimna* (*Hyphilare*) *ferrago* (Fabricius,1787), *Noctua* (*Lampra*) *fimbriata* (Schreber,1759), *Nycteola revayana* (Scopoli,1772), *Periphanes* (*Philareta*) *treitschkii* (Frivaldszky,1835). **Oecophoridae:** *Pleurota* (s.str.) *eximia* Lederer,1861. **Pyralidae:** *Anarpia incertalis* (Duponchel,1832), *Bradyrrhoa gilveolella* (Treitschke,1833), *Catoptria pinella* (Linnaeus,1758), *Cynaeda* (s.str.) *gigantea* (Staudinger,1879), *Evergestis segetalis* (Herrich-Schäffer,1851), *Mecyna flavalis* ([Denis & Schiffermüller],1775), *Mecyna trinalis* ([Denis & Schiffermüller],1775), *Myrllaea albistrigata* (Staudinger,1881)... **Sphingidae:** *Hyles nicaea* (Prunner,1798), *Rethera komarovi* (Christoph,1885). **Tortricidae:** *Cydia pomonella* (Linnaeus,1758. **Yponomeutidae:** *Yponomeuta malinella* (Zeller,1838).

Krapet Pass (65Ab) (**Figs. 4, 5**). Heavily overgrazed and arid alpine tragacanthic steppe between 2800-2900m. This place is mostly covered by snow until June. Snow starts again in late October. It has been studied by day between June and August.



Fig. 4 – Krapet Pass 2820m, overgrazed mountain steppe (65Ab), 6 August, 2016, M Kemal (Cesa)

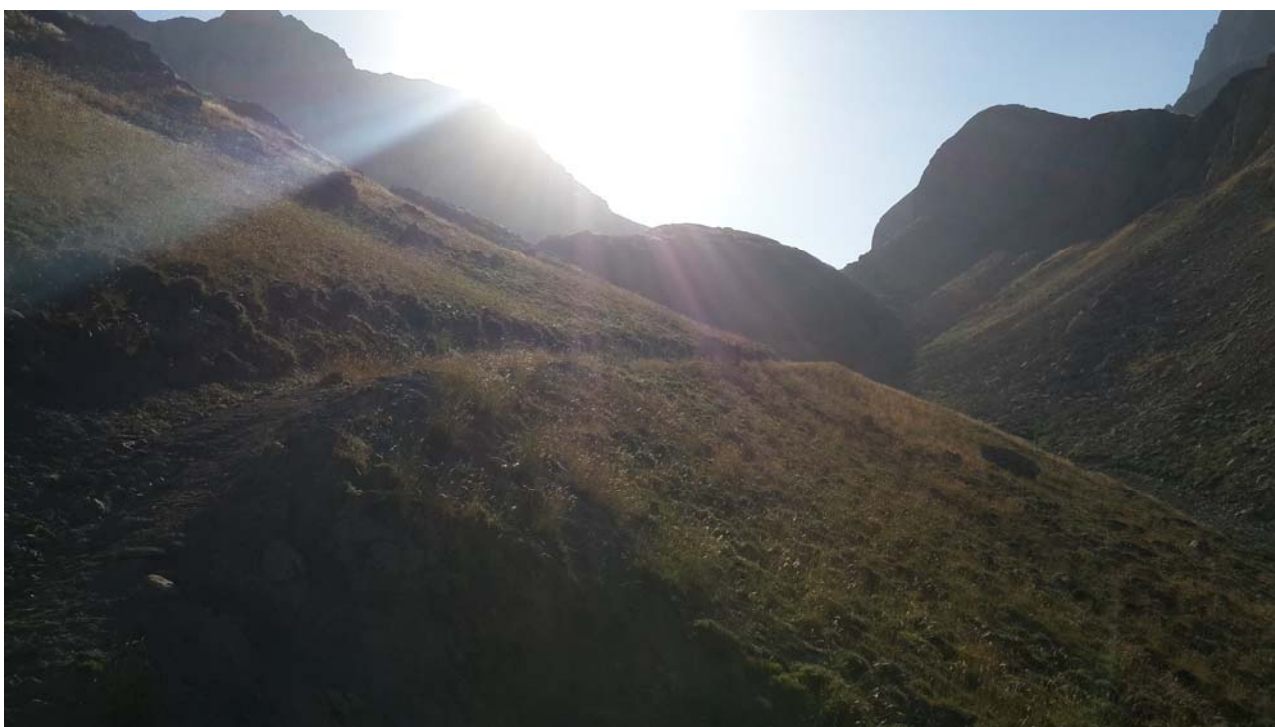


Fig. 5 – Krapet Pass 2820m light trap locality early in the morning (65Ab), 7 August, 2016, M Kemal (Cesa)

Only one night in early August, the moths could be collected by light trap. Several times
Some moth species recorded here are as follows;

Arctiidae: *Lacydes spectabilis* (Tauscher, 1806). **Cossidae:** *Cossulus argentatus* (Staudinger, 1887). **Gelechiidae:** *Aristotelia subericinella* (Duponchel, 1843). **Geometridae:** *Aplocera numidaria* (Herrich-Schäffer, [1852]), *Hyposcotis (Charissa) certhiata* (Rebel & Zerny, 1931), *Isturgia hopfferaria* (Staudinger, 1879), *Scopula decorata* ([Denis & Schiffermüller], 1775), *Scotopteryx nebulata* (A. Bang-Haas, 1907), *Stamnodes depeculata* (Lederer, 1870). **Noctuidae:** *Amphipyra* (s.str.) *livida* ([Denis & Schiffermüller], 1775), *Amphipyra* (s.str.) *tragopoginis*

(Clerck,1759), *Apamea* (s.str.) *ferrago* (Eversmann,1837), *Apamea* (s.str.) *platinea* (Treitschke,1825), *Chersotis* (s.str.) *capnistis* (Lederer,[1870]), *Chersotis* (s.str.) *juvenis* (Staudinger,1901), *Chersotis* (s.str.) *laeta* (Rebel,1904), *Chersotis* (s.str.) *larixia* (Guenée,1852), *Cryphia* (Euthales) *algae* (Fabricius,1775), *Desertoplusia* *colornata* Varga & L.Ronkay,1991, *Dichagyris* (Albocosta) *flammatra* ([Denis & Schiffermüller],1775), *Dichagyris* (s.str.) *elbursica* (Draudt,1937), *Dichagyris* (s.str.) *terminicincta* (Corti & Draudt,1933), *Enargia* *pinker* De Freina & Hacker,1985, *Eremobia* *asiatica* Draudt,1936, *Euchalcia* *hedeia* Dufay,1978, *Euxoa* (Pleonectopoda) *rjabovi* Kozhantshikov,1929, *Euxoa* (s.str.) *conspicua* (Hübner,[1824]), *Euxoa* (s.str.) *scurrilis* Draudt,1937, *Euxoa* (s.str.) *sulcifera* (Christoph,1893), *Lygephila* (s.str.) *pallida* (A.Bang-Haas,1907), *Noctua* (Lampira) *fimbriata* (Schreber,1759), *Noctua* (s.str.) *pronuba* (Linnaeus,1758), *Standfussiana* *lucernea* (Linnaeus,1758). **Pyrallidae:** *Catoptria* *hilarella* (Caradja,1925), *Ecpyrrhorhoe* *diffusalis* (Guenée,1854), *Isauria* *dilucidella* (Duponchel,1836), *Lamoria* *sapozhnikovi* (Krulikovskiy,1909)... **Tortricidae:** *Aphelia* (*Zelotherses*) *christophi* Obratzsov,1955, *Eana* (*Eutrachia*) *goiiana* (Linnaeus,1761), *Eugnosta* *magnificana* (Rebel,1914).

During the field studies, the observations were mostly made by the first author, and photographed. In the year of 2016, during 13 excursions to Bahçesaray, the first author took more than 22000 pictures. Some of them are used in the planned publications of the entomofauna of Bahçesaray (Figs.).

In this year, during the field studies in Bahçesaray district, the authors visited the localities mentioned above between early May and late October. Nearly 9000 lepidopteran specimens and several thousand specimens of other pterygot insects were collected by day and by night. The identifications of the species are realized by the authors, by using the info-system of the Cesa.⁵ If necessary, the microscopic slides of the genitalia were prepared and photographed by the first author (**Figs.**). All the collected material, photographs and permanent genitalic slides are preserved in the collection and archives of the Cesa.⁶

In the following text, autoecological evaluations are also given for most of the species in the following way:

- 1) Abundance level of the species is mainly expressed by the terms rare, uncommon, common.
- 2) Adult phenology is expressed seasonal, i.e., vernal [March, April, May], aestival [June, July, August], and autumnal [September, October, November], together with the generation number.
- 3) Daily flight activity of the adult moths is expressed as diurnal, crepuscular, and nocturnal.
- 4) Habitat preference of the species is also mentioned for some species.

For this publication, triad distributional maps of 56 species are prepared, by using their distributional codes, mentioned in the text (**Maps 1-56**). In these maps, range of the species in the world are based on the state codes (TR IL LB IQ, etc). Range of the species in Turkey are based on the province codes (01-81). Range of the species in the SE Turkey, including Bahçesaray, shows by blue rectangular marking, are based on the district codes in the text. The district codes are alphanumerical, beginning always with province numbers, like 06R 06Re 08C 08H 13B 30D 30Da 31M 36D 36F 51B 51Ba 65A 65Am 65Am4 65D 65Df 65F 65Fa.

⁵ Cesa: <http://www.cesa-tr.org/Organ.htm> Info-system of the Cesa: <http://www.cesa-tr.org/Infos.htm>

⁶ <http://biocol.org/institution/centre-entomological-studies-ankara>

List of the species recorded from the Bahçesaray District

1) *Abrostola clarissa* (Staudinger,1900) Map 1

Synonym(s): *clarissa* Staudinger,1900 Original Reference: *Plusia triplasia* var. *clarissa* Staudinger,1900, Dt. ent. Z., Iris 12: 381. Syntypes 5♂ 3♀: [Türkei]: Amasia, Mardin, Eibes [Akbes]; [Israel]: Jerusalem. Range (in code): TR IL Js Pa LB Bsa IQ Dk Ama IR Elb Ab Oru Khy Ak Aha Kdj Th Se Kh Es By Mz Dam Kdj Fa SY RU Cc Ich Ing Da AF TM 04 05 06 08 13 18 24 25 30 31 33 36 47 50 51 58 62 65 66 05A 06R 06Re 08C 08H 13B 30D 30Da 31M 36D 36F 51B 51Ba 65A 65Am 65Am4 65D 65Df 65F 65Fa
Notes: Rare in the district. Flight activity only nocturnal. It occurs at various habitats of tragacantic steppe at upper Mukus valley.

2) *Acontia (Emmelia) trabealis* (Scopoli,1763) Map 2

Synonym(s): *trabealis* Scopoli,1763; *arabica* Hufnagel,1766; *sulphuralis* Linnaeus,1767; *sulphurea* [Denis & Schiffermüller],1775; *lugubris* Fabricius,1777; *histrionella* Goetze,1783; *arlequinetta* Fourcroy,1785; *trabeata* Borkhausen,1790; *pardalina* Walker,1865; *deleta* Staudinger,1877; *flavonitens* Austaut,1880; *algira* Oberthür,1881 Original Reference: *Phalaena trabealis* Scopoli,1763, Entomologia Carniolica: 240. Type(s): [Slovenien]: Carniolia [Krain]. Range (in code): MA DZ TN PT ES Mu FR Co Sa Si IT MT GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR Cr TR CY LB Bei IL Hf Pa SY JO DK NO SE FI EE LV LT RU Tv Am Sb MD UA BY IR Ab Mak Mz Th Elb Kd Snj Km Lo Kz Yas Ss Bk Qz IQ Agh Amr AM GG AZ Len Cc AF PK Bl Qu CN Ui Ku SA SA63 Us MN MU KK Ik Skm Osh Ro Kr St Kb Kc Nt Ich Ing Kyi Da Oru Bne Mrv Bjr Zj GlS Bsk Abe Sbd Rbt Anna 01 04 05 06 07 08 11 13 16 18 30 32 33 36 38 41 42 46 50 55 56 58 59 60 65 66 71 75 76 01H 05A 06R 06Rd 13A 13G 13Gg 16A 30D 30Dx 36D 36Db 38H 38Hc 46G 46Gf 55F 56F 58N 60G 65A 65An 65D 65Du 65K 65Kl 65L 65Lb 65M 65Mc 65Md 75F 75Fb 75Fd 76B 76Bf 76Bh 76Bj
Notes: Uncommon in the district.

3) *Acontia (Uracontia) titania* (Esper,[1798]) Fig. 6, Map 3

Synonym(s): *titania* Esper,[1798]; *urania* Frivaldsky,1835; *eversmanni* Kolenati,1846. Original Reference: *Phalaena titania* Esper,[1798], Die Schmett. 4(2/2): 36, Tab.190, Noct.111, fig.2. Syntypes: [Russia]: Taurien [Südrussland]. Range (in code): Si? RO RU Ro Da YU BG GR TR AZ Kir Nv Ord Cc GG Lag AM IR Fa Ab Mak Elb Th Kaz Mia Kh Msh IQ TM UZ N-A LB Bei IL Pa SA 01 02 05 08 13 16 17 24 30 33 36 42 44 46 50 56 58 60 62 65 73 05A 30B 30Bc 30Be1 30Bx 30D 30Dx 33E 44L 44Lc 46G 46Gf 56F 65A 65Am 65Am4 65Ac 65Ac3 65D 65Df 65Dl 65Dlc 65F 65Fa 65Fc 65Fp 65Fz 65N 65Np 65Np6 65Nm
Notes: Uncommon in the district.

4) *Acontiola moldavicola* (Herrich-Schäffer,[1851]) Map 4

Synonym(s): *moldavicola* Herrich-Schäffer,[1851]; *euboica* Mill.,1874; *mesopotamica* Schawerda,1923 Original Reference: *Acontia moldavicola* Herrich-Schäffer,[1851], Syst. Bearb. Schmett. Eur.: 419, Noctuides pl.44 figs.224,225. Type(s): [Czechoslovakia]: Moldau. Range (in code): IT RO YU AL BG GR RU MD UA BY TR IQ Mos 07 21 42 48 56 63 65 07A 07Ac 21N 21Nb 56F 56Fc 65A 65At 65At1 65D 65Dl 65Dn Prep. no: GP1128♂
Notes: Rare in the district. It has been recorded at Altındere. Flight activity diurnal.

5) *Acronicta (Subacronicta) megacephala* (Fabricius,1787) Map 5

Synonym(s): *megacephala* Fabricius,1787; *ankarensis* Hering,1933. Original Reference: *Noctua megacephala* Fabricius,1787, Mant. Ins. 2: 175, nr.261. Type(s): [Wien]. Range (in code): MA PT ES Mu FR Co Si IT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR TR IR Mz Elb Kd Snj SY DK NO SE FI EE LV LT RU Cc GG Smt Bjo Lag AZ Kir Ro Kr St Kc Kb Nt Ich Da Sb MD UA BY KG Uk Ui CN KP KR JP 04 06 08 13 18 16 24 25 30 31 33 34 36 37 42 44 46 50 51 53 58 60 62 65 66 75 76 06F 06Fb 06K 06Kc 13G 13Gw 13Gs 16A 34A 36D 36Db 36F 51B 51Ba 60C 60G 65A 65Ac 65Ac3 65F 65Fc 65Fe 65Fm 65Fr 65Fz 65K 65Kp 65N 65Np 65Np6 65Nm 75F 75Fd 76B
Notes: Confined to subalpine and alpine zones, at Populetum. Recorded at Spindaran 2320m. Flight activity only nocturnal.

6) *Acronicta (Viminia) auricoma* (Fabricius,1787) Map 6

Synonym(s): *auricoma* [Denis & Schiffermüller],1775; *auricoma* Fabricius,1787; *lapathi* Schrank,1801; *similis* Haworth,1809; *pepli* Hübner,[1813]; *alpina* Freyer,1858 Original Reference: *Noctua auricoma* Fabricius,1787, Mant. Ins. 2: 174, nr.256. Type(s): Austria: [Wien]. Range (in code): PT ES Mu FR IT GB BE NL LU DE CH AT PL CZ SK HU RO YU BG GR TR DK NO SE FI EE LV LT RU Cc Ro Kr Kb Kc Nt Ich Ing MD UA BY GG Smt Bjo Bku AM AZ 04 06 08 16 28 30 36 53 65 69 06K 06Kc 16A 30B 30Bh 36F 53B 65A 65Am 65Am4 Prep. no: GP923♂

Notes: Uncommon in the district. Flight activity only nocturnal. This is apparently new record to Van fauna!

7) *Acronicta (Viminia) rumicis* (Linnaeus, 1758) Map 7

Synonym(s): *rumicis* Linnaeus, 1758; *litterata* Panzer, 1804; *salicis* Curtis, 1826; *diffusa* Walker, 1857 Original Reference: *Phalaena rumicis* Linnaeus, 1758, Syst. Nat. (Edn.10)1: 516. Lectotype ♂: [Europa], designated by Mikkola & Honey, 1993. Range (in code): MA DZ PT ES Mu FR Co Sa Si IT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR Cr TR GG AM AZ Cc IL Pa Hf IQ IR Fa Ke Gh Elb Clu Dam Th Kdj Mz Kd Snj Lo DK NO SE FI EE LV LT RU Cc Ro Kr St Kb Nt Ich Kyi Da MD UA BY CY LB Bsa JO SY AF Pli Srb Fz Kab KG Tk Dj KK Skm Ik Ui CN KP KR Sh Sb UZ Fe JP Tbl Da Der Len Nv Ord Abe Hrh Sét Btina Tgr Clo Dhm Sbd Anna TN 01 03 05 06 07 08 14 16 21 25 26 30 31 33 37 42 45 46 50 51 55 56 58 62 63 65 66 67 05A 08H 08Hc 16A 21L 30D 30Dx 31K 31Ka 55F 56F 58N 65A 65Ai 65F 65Fm 65Fr 65Fç 65Fz 65K 65Kp 65L 65Lb

Notes: Uncommon in the district. Flight activity only nocturnal.

8) *Agrochola (Alpichola) janhillmanni* Hacker & Moberg, 1989

Synonym(s): *janhillmanni* Hacker & Moberg, 1989 Original Reference: *Agrochola janhillmanni* Hacker & Moberg, 1989, Nota lepid. 12 (2): 128, figs. Holotype ♂: Türkiye: [Şırnak]: Tanin Dağları, Elkek geçidi, 2200m, 7km nnö. Uludere, 15.ix.1985 (leg. coll. Hacker). Range (in code): TR Cc AM 04 08 12 13 25 36 49 62 65 69 73 75 04D 04Da 04I 12E 13C 13Cf 25D 25F 36F 49E 49Ea 49F 49Fe 62G 65A 65Am 65Am4 65Bx 65G 65D 65Df 65Ge 69B 69Ba 73C 73Cd 75D

Notes: There are at least two different species resembling externally to *A. janhillmanni*. Common in the district. An autumnal species, with a single generation in a year. Flight activity only nocturnal. It occurs at various habitats of tragacantic steppe at upper Mukus valley. The specific identity will be discussed in a separate paper.

9) *Agrochola (Anchoscelis) humilis* (Fabricius, 1787) Fig. 7

Synonym(s): *humilis* [Denis & Schiffermüller], 1775; *humilis* Fabricius, 1787 Original Reference: *Noctua humilis* Fabricius, 1787, Mant. Ins. 2: 146, nr.89. Type(s): [Wien]. Range (in code): FR IT BE DE CH AT CZ SK HU RO YU BG GR TR RU Cc Kr Da 06 24 25 56 60 65 75 06E 06Ea 06R 06Rb 06Rk 06Rq 25A 56F 65A 65Aö 75F 75Fb

Notes: Most of the *Agrochola* species flies sympatrically. An autumnal species, with a single generation in a year. This is apparently new record to Van fauna!

10) *Agrochola (Anchoscelis) kindermannii* (Fischer v. Röslerstamm, [1841])

Fig. 25, Map 8

Synonym(s): *kindermannii* Fischer v. Röslerstamm, [1841]; *ballotae* Duponchel, [1842]; *cindermannii* Hampson, 1906; *rufa* Osthelder, 1933; *wolfschlaegeri* Boursin, 1953 Original Reference: *Orthosia kindermannii* Fischer von Röslerstamm, [1841], Abb. Ber. Erg. Schmettk. 1: 77, pl.36 figs.1a-c. Type(s): Fiume. Range (in code): IT Si HV YU GR BG MK Och TR LB IR AZ Nv Dz Cc 05 06 09 13 33 34 43 46 54 58 64 65 70 05A 06E 06Ea 06K 06Kc 06R 06Rb 06Rk 06Rq 13C 13Cf 58G 64F 65A 65Am 65Am4 70C 70Cb Prep. no.: GP2440♂ (male genitalia), GP2440♂ (abdominal skin).

Notes: An autumnal species, with a single generation in a year. Recorded at upper Mukus valley. This is apparently new record to Van fauna!

11) *Agrochola (Anchoscelis) luteogrisea* (W. Warren, 1911) Map 9

Synonym(s): *luteogrisea* W. Warren, 1911 Original Reference: *Amathes litura* ab. *luteogrisea* W. Warren, 1911, [in] Seitz, A., Gross-Schmett. Erde 3: 152. Type: Türkiye, Amasia. Range (in code): GR Sms BG TR LB IL Pa IR Elb Th RU Cc Ich 05 06 13 25 50 56 58 60 62 65 70 06E 06Ea 06R 06Rb 06Rq 13G 13Ge 25T 56F 58G 62G 62Gb 65A 65Am 65Am4 70C 70Cb

Notes: An autumnal species, with a single generation in a year. Recorded at upper Mukus valley. This is apparently new record to Van fauna!

12) *Agrochola (Frivaldskyola) mansueta* (Herrich-Schäffer, [1850])

Synonym(s): *mansueta* Herrich-Schäffer, [1850]; *pontica* Staudinger, 1901 [ssp.] Original Reference: *Cerastis manuseta* Herrich-Schäffer, [1850], Syst. Bearb. Schmett. Eur. 2: 322. Syntypes: [Türkei]: Küsten Marmarameer. Range (in code): Si HV GR Cr Rd TR IL Pa Hf 01 06 07 13 17 21 23 27 33 35 42 45 46 56 63 64 65 70 01K 06R 07A 13C 13Cf 21L 42B 42D 42Dd 56F 65A 65Am 65Am4 70B 70C 70Cb

Notes: An autumnal species, with a single generation in a year. Recorded at upper Mukus valley. This is apparently new record to Van fauna!

13) Agrotis (Crassagrotis) obesa (Boisduval,1829) Map 10

Synonym(s): *obesa* Boisduval,1840 Original Reference: Noctua obesa Boisduval,1840, Genera meth. index Eur. Lep. (Add.): 3. Type(s): Europa. Range (in code): MA DZ Ges Btina Lbs Sbd Tlm Abe Afl LY MT PT ES FR IT MK BG GR RO MD UA Cm TR RU Ro Kr St Da IQ Brs AZ Kir GG Tbl Cc AM SY IR Gh Elb Th UZ Fe KK Osh KG TM CN LB IL Pa JO 01 03 04 06 08 13 18 20 23 25 26 30 36 44 46 50 56 58 62 63 65 71 73 01L 01La 03F 04D 04Da 06C 06Cb 06D 06Da 06R 06Rb 06Rq 06Y 06Yb 08H 08Hb 13C 13Cf 13D 13Da 18F 25R 25Rb 26K 30B 30Be 30Bh 30D 30Bj1 36D 36Db 44E 44Eh 46K 46Ka 50G 50Ga 50Gd 56F 58G 58Gi 58R 63E 65A 65Am 65Am4 65D 65Df 65F 65Fa 65Fm 65G 65Gj 65K 65N 65Nc 65Nç 65Np 65Np1 65Np2 65Np7 65Nm 65Kg 65Kd 65Ku 70A 70Ac 73C 73Cd
Prep. no.: GP571[♂] GP572[♂] GP750[♂] GP751[♂]

Notes: An autumnal species, with a single generation in a year. Recorded at upper Mukus valley.

14) Agrotis (s.str.) exclamatoris (Linnaeus,1758) Map 11

Synonym(s): *exclamatoris* Linnaeus,1758; *clavus* Hufnagel,1766; *murina* Goeze,1781 *nec* Hufnagel,1766; *bimaculata* Geoffroy,1785; *picea* Haworth,1809; *plaga* Stephens,1835; *haruspex* Le Cerf,1924; *nigriorbis* Zerny,1934. Original Reference: Phalaena exclamatoris Linnaeus,1758, Syst. Nat. (Edn.10) 1: 515. Lectotype ♂: Europa, designated by Mikkola & Honey,1993. Range (in code): MA DZ TN LY PT ES FR Co Sa Si IT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR DK NO SE FI EE LV LT RU Ro Kr St Kc Kb Nt Ich Ing Da Kyi MD UA BY CY TR AZ AM GG Cc IR Th Elb Kd Ab Es Ke Kh Fa Bk MN UZ KK KG CN Ui Ku Tlk AF Hr Pli Adr IQ Mos LB Bsa IL Pa Oru 01 03 04 05 06 07 08 12 13 14 18 24 25 28 30 33 34 36 37 39 36 42 44 45 46 50 51 55 58 60 65 71 04D 04Da 05A 06R 06Ra 07C 08G 08H 08Hb 12C 12Cb 13A 13Ab 13Ax 13B 13G 13Gs 13Gw 14B 14Bb 18F 24L 25A 25C 25Ca 28D 28Db 30B 30Be 33E 33O 34L 36D 36Db 36F 39H 42B 42R 42Rb 44L 44Lc 50G 50Ga 50Gd 50Gc 51B 51Ba 55F 58G 58N 58R 65A 65Am 65Am1 65Am4 65An 65At 65At5 65F 65Fa 65Fg 65Fm 65Fp 65Fz 65G 65Ge 65K 65Kl 75F 75Ff

Notes: A vernal-autumnal species, common at cultivated areas, orchards, etc.

15) Agrotis (s.str.) ipsilon (Hufnagel,1766) Map 12

Synonym(s): *ipsilon* Hufnagel,1766; *suffusa* [Denis & Schiffermüller],1775; *idonea* Cramer,[1780]; *spinula* Esper,[1786]; *spinifera* Villers,1789. Original Reference: Phalaena ipsilon Hufnagel,1766, Berl. Mag. 4 (2): 416. Type(s): [Germany]: Berlin. Range (in code): PT MR MA DZ TN LY ES FR Co Sa Si IT MT IS IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR Cr CY TR DK NO SE FI EE LV LT RU MD UA BY IR Fa Lo Kh IQ Agh Amr kut MN PK Bl Qu AF Kab Gbh Srb Arh LB Bsa SY IL Pa JO Sn EG IN Up Bhi Nnt Kil ZA Tva Lpo Spb Mdk Hu Rd Hf Nwf AU NC FJ NZ HW EA Th Elb Mz Dam Hz GG Smt Bjo Lag Len AZ AM Cc UZ KK KG TJ TM Ro Kr St Kc Kb Nt Ich Ing Da Kyi ET ET24 Rw Thu LK Pdy Dck Pdn Ab Oru GlS Kh Ges Ah Sbd Btina Bsk Orn Bsa Abe DhM Afl Onç Ah Ajj Idl Ath 01 03 05 06 07 08 11 13 14 15 16 18 20 21 25 27 29 30 31 32 33 35 36 37 42 44 46 47 48 49 50 51 56 57 58 62 63 65 67 69 71 80 01D 05A 06R 06Rb 08H 08Hb 11E 13A 13Ab 13Ax 13B 13G 13Gg 13Gf 13Gs 13Gw 14B 14Bb 16A 18F 21N 21Nh 25A 25R 27B 29F 30D 30Df 30Dx 31K 31Ka 33E 33H 36F 36Fb 42R 42Rc 44L 44Lc 46K 47E 48L 49F 49Fb 50G 50Gd 51B 51Ba 51D 51Da 56F 56Fa 56Fo 58G 58N 63D 63M 65A 65Ai 65An 65D 65Df 65Di 65Dlc 65Ds 65E 65Eb 65F 65Fa 65Fb 65Fd 65Fg 65Fi 65Fr 65Fp 65Fz 65Fu 65K 65Kl 65N 65Nc 65Np 65Nm 65L 65Lb 69B 80E 80Ea

Notes: A vernal-autumnal species, common at cultivated areas, orchards, etc.

16) Agrotis (s.str.) segetum ([Denis & Schiffermüller],1775)

Synonym(s): *segetum* [Denis & Schiffermüller],1775; *sordida* [Denis & Schiffermüller],1775; *undulatus* Goeze,1781 (*praeocc.*); *nigricornis* Villers,1789; *segetis* Fabricius,1794; *catenatus* Haworth,1803; *monileus* Haworth,1803; *pectinatus* Haworth,1803; *connexus* Haworth,1803; *subatratus* Haworth,1803; *nigricornutus* Haworth,1803; *praecox* Hübner,[1808]; *fervida* Hübner,[1824]; *affinis* Stephens,1829; *sicula* Boisduval,1840; *dimidia* Zeller,1847; *sicania* Guenée,1852; *marginalis* Walker,1857; *aversa* Walker,1857; *correctus* Walker,1857; *obliviosus* Walker,1857; *denticulosus* Wallengren,1860; *certificata* Walker,1865; *conspurcatus* Walker,1865; *repulsus* Walker,1865; *ingratus* Butler,1878; *pallidus* Staudinger,1881; *lassa* Swinhoe,1886. Original Reference: Noctua segetum [Denis & Schiffermüller], 1775, Ankündigung syst. Werkes Schmett. Wienergegend:81,t.1,f.3. Type(s): [Austria]: Vienna district. Range (in code): Cn MA DZ TN LY EG PT ES FR Co Sa Si IT MT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR Cr TR DK NO SE FI EE LV LT RU MD UA BY CY IR Fa Lo Ss Kh Ha Mz IQ MN CN Ui Ku PK Bl Qu AF Hr Srb Gbh Blh Arh Fz ZW Har ZA Mpu Brb Gau Pre Jh Tva Lpo Spb Mdk Nta Kzu LB Bsa IL Hf Pa SY JO Sn Tkr Agh Bgd Mj Up Bhi Nnt Kil Kml Gh Th Ab Oru Kz Hz GlS UZ KK KG TJ TM Cc Ro Kr St Kc Kb Nt Ing Ich Da Kyi ET ET24 Mre Cp Thu Rw LK Pdy Smt Tbl Bjo Kir Kus IN Hp Sml Haz Cte Mh Nsk Ges Afl BSA KhH Ktr Btina DhM Abe Lbs Agi Bsk Bdj Lgt Ah Sbd Ess Mzg Hrh Dzc Clo Ah Ajj Idl 01 05 06 07 11 13 14 15 16 18 21 24 25 27 30 31 32 33 35 36 37 38 42 44 46 49 50 51 56 57 58 60 62 63 65 67 71 80 01D 05A 06R 06Ra 06Rq 06Y 06Yb 07A 07C 11E 13A 13Ab 13Ax 13C 13Cf 13G 13Gü 13Gy 13Gw 13Gs 15F 16A 18F 21N 21Nh 25D 27B 30D 30Db 30Du 30Dx 31K 31Ka 31Ka3 31L 31La 33E 33H 35O 36D 36Db 36F 36Fb 38C 38Cb 44L 44Lc 49F 49Fb 50G 50Ga 50Gd 51B 51Ba 56F 56Fa 58G 58Gh 62G 62Gb 63D 63E 65A 65Ai 65An 65Am 65Am2 65B 65Bn 65Bn1 65D 65Df 65Dg 65Dn 65Du 65F 65Fa 65Fd 65Fg 65Fi 65Fj 65Fp 65Fu 65Fz 65G 65Ge 65K 65Kl 65L 65Lb 65N 65Np 65Np1 65Np2 65Nm 80E 80Ea

Notes: A vernal-autumnal species, common at cultivated areas, orchards, etc.

17) Allophytes (s.str.) asiatica (Staudinger,1892) Map 13

Synonym(s): *asiatica* Staudinger,1892 Original Reference: Miselia oxyacanthae var. asiatica Staudinger,1892, Dt. ent. Z., Iris 4: 283-284. Syntypes: [Türkei]: Amasia. Range (in code): GR TR CY IR GlS 02 05 06 07 13 14 21 24 25 42 56 58 62 64 65 66 75 05A 06E 06Ea 06R 06Rb 06Rq 13C 13Cf 21L 25D 56E 56Eh 56F 58G 62G 62Gb 64F 65A 65An 65Aö 65Am 65Am4 75F 75Fb Prep. no.: GP909[♂] GP910[♂] GP911[♂] GP912[♂]

Notes: An autumnal species, uncommon. This is apparently new record to Van fauna!

18) Amphipyra (s.str.) livida ([Denis & Schiffermüller],1775) Map 14

Synonym(s): *livida* [Denis & Schiffermüller],1775 Original Reference: Noctua livida [Denis & Schiffermüller],1775, Ankündigung syst. Werkes Schmett. Wienergegend: 85. Type(s): [Austria]: Vienna district. Range (in code): ES FR Co IT DE CH AT PL CZ SK HU RO YU BG GR TR AZ Kir GG Lag Cc DK FI LV LT RU Ro Kr St Nt MD UA BY JP 01 05 08 12 13 30 33 42 56 65 73 01K 05A 13A 13Ab 13Ax 13C 13Cf 30B 30Bf 33G 33R 42D 42Dd 56E 56Eh 56F 65A 65Ab 65Aba 73D 73Da

Notes: An aestival species, uncommon. This is apparently new record to Van fauna!

19) Amphipyra (s.str.) micans Lederer,1857 Map 15

Synonym(s): *micans* Lederer,1857; *frivaldskyi* Mocsary,1896 Original Reference: Amphipyra micans Lederer,1857, Wien. ent. Monatschr. 1:94. Type(s): [Libanon]: Beirut. Range (in code): RO HU MK BG GR SY LB Bei TR Cc IR Es CY IL Pa Hf 01 05 06 08 13 24 25 30 31 33 36 42 46 51 56 58 62 65 66 01K 05A 08H 13G 13Gy 25F 30B 30Bd 30Bx 30D 30Da 30Dt 31K 31Ka 31Ka3 36F 56F 65A 65Ac 65Ac3 65D 65Df 65Dn 65Du 65F 65Fm 65I 73C 73Cd

Notes: An aestival species, uncommon.

20) Amphipyra (s.str.) stix Herrich-Schäffer,[1850]

Synonym(s): *stix* Herrich-Schäffer,[1850]; *#styx* Staudinger,1879. Original Reference: Amphipyra stix Herrich-Schäffer,[1850], Syst. Bearb. Schmett. Eur.2:324. Syntypes: [Türkei]: Marmarameer. Range (in code): RO MK BG GR Cr TR Cc AM IL Pa IR Fa Mia 01 05 06 08 13 15 25 30 32 36 41 42 50 56 62 65 73 05A 06R 13A 13G 13Gü 13Gw 30B 30Bh 30Bf 30D 30Dt 36F 56F 65A 65Ai 65Am 65Am4 65D 65Dj 65Dv 65L 65Lb 73A 73Ad 73Ad2

Notes: An aestival species, uncommon.

21) Amphipyra (s.str.) tragopoginis (Clerck,1759)

Synonym(s): *#tragopoginis* Clerck,1759; *luciola* Hufnagel,1766; *repressus* Grote,1871 Original Reference: [Phalaena] tragopoginis Clerck,1759, Icones Ins. rariorum 1: Taf.1 fig.5. Schweden. Range (in code): MA DZ ES FR Co Sa Si IT MT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR CY TR GG Smt Bjo Mng AZ Kir AM Cc LB IR Maz Gls Fa Lo By Yas Ke Mia Kz Kd Mrv DK NO SE FI EE LV LT RU Ro Kr St Kc Kb Nt Ich Ing Da Sb At MD UA BY Ch IN Hp Kul CA US Pns Mss Ny 01 05 06 08 09 13 14 16 17 18 30 32 33 38 39 42 43 46 50 58 60 65 76 78 05A 06R 06Rb 13A 13B 13G 13Gg 13Gü 13Gw 16A 30D 30Dt 46G 46Gi 65A 65Ab 65Aba 65D 65Df 65F 65Fm 65Fp 65Fz 65K 65Kl 76C 78D 78Da

Notes: An aestival species, uncommon.

22) Antitype jonis (Lederer,1865) Map 16

Synonym(s): *jonis* Lederer,1865; *amasina* Staudinger,1901 Original Reference: Polia jonis Lederer,1865, Annls Soc. ent. Belg. 9: 63, 78-79, pl.iii fig.9. Syntypes 2♀: [Turquie]: "Kisilgye-Aolé". Range (in code): IT YU AL TR LB Bsa SY Cc AZ Nv Ngm IR 04 05 06 07 08 25 30 33 36 38 44 45 46 50 58 62 65 69 70 05A 06E 06Ea 06R 06Rq 07B 25D 25F 30D 30Bj1 36D 36Db 38H 38Hc 50G 50Gd 58G 65A 65Am 65Am4 65D 65Df 65F 65Fp 65Fz

Notes: An autumnal species, common, with a single generation in a year.

23) Apamea (s.str.) ferrago (Eversmann,1837)

Synonym(s): *ferrago* Eversmann,1837 Original Reference: Xanthia ferrago Eversmann,1837, Bull. Soc. imp. nat. Moscou 1837: 41. Type(s): Russland: Kasan. Range (in code): LV RU St Kb Kc Nt Ich Da Ur MD UA BY TR AM Cc GG Smt Bjo Bku Kus IR Kdv Elb Th Dam Mz AF CN Ui KG Tk KK Ik Ax TrA 04 08 13 24 25 36 38 46 50 51 58 60 61 65 75 76 04I 13A 13Ab 13Ax 13G 13Gü 13Gw 25C 25Ca 25F 65A 65Ac 65Ac3 65Ab 65Aba 65Bx 65D 65Df 65G 65Ge 65Gü 65Gz 65F 65Fç 65Fz 76C

24) Apamea (s.str.) platinea (Treitschke,1825)

Synonym(s): *platinea* Treitschke,1825; *grisescens* Touleschkov,1951 *nec* Stgr.,1889; *touleschkoffi* Koçak,1980. Original Reference: Polia platinea Treitschke,1825, Schmett. Eur. 5(2): 34. Type(s): [Austria]: Baden bei Wien. Range (in code): MA ES FR Si IT DE CH AT CZ SK RO YU AL GR TR GG Bku Cc AZ Kir IR Fa Kh KuB Mz Elb Com LB TM IL Pa He RU Ich Ing Da Sr 08 24 25 30 33 36 38 42 50 51 58 60 65 70 73 76 08H 25B 65A 65Ab 65Aba 65B 65Bk 65Bx 65F 65Fr 65Fp 65Fz 65G 65Ge 73C 73Cd 76C

25) Autographa gamma (Linnaeus,1758)

Synonym(s): *gamma* Linnaeus,1758; *messmeri* Schadewald,1992; *voelkeri* Schadewald,1992. Original Reference: Phalaena gamma Linnaeus,1758, Syst. Nat. (Edn.10)1: 513. Lectotype ♀: [Europa], designated by Mikkola & Honey,1993. Range (in code): PT ES Mu FR Co Sa Si IT MT IS IE GB BE NL LU DE

CH AT PL CZ SK HU RO YU AL BG GR Cr Rd TR CY LB Bsa DK NO SE FI EE LV LT RU MD UA BY IQ Agh Mj IR Fa Elb Mz Dam Th Kdj Kz Yas Skh Bu Dlk AF Jla Kab Bsg Nu Adr CN Ui Ku IL Pa Hf JO EG Sn GG AZ AM Cc KK Ik TrA Ax UZ KG Ro Kr St Kb Kc Nt Ing Da Kyi ET ET24 SY Hal Ak Shf Ab Ar Gh Gls Kh Se Qz Zj Kd Km Lo By Bk Es Bu Ss MA DZ Blid Bsk Tlm Btma Orn Lbs Agi Hrh Abe Khh Ahr Hmk Ges Perr Bdj Ndr Dhm TN Bsa Sbd Tgr Hes Clo Ajj 01 03 04 05 06 07 08 10 13 14 16 17 18 19 21 24 25 26 28 30 31 32 33 35 37 38 39 42 43 44 48 49 50 51 52 56 58 61 62 63 65 66 73 75 76 80 05A 06P 06Pb 06R 06Rb 10K 10Ka 13A 13Ab 13Ax 13G 13Gg 13Gg 13Gö 13Gs 13Gw 16A 21L 21Lc 21N 21Nh 30B 30Bb 30Bk 30D 30Dx 31K 31Ka 31Ka3 31Ka7 33A 33Ac 33E 44L 44Lc 48L 49F 49Fb 56F 58N 63D 65A 65As 65Bx 65E 65Eb 65Ec 65Eç 65Ed 65D 65Dr 65F 65Fd 65Fu 65G 65Ge 65K 65Kl 65Kp 65Ku 65M 65Mc 65Md 65N 65Nc 65Np 65Nr7 65Nm 73A 73Ac 73Ac1 73H 75F 75Fg 76A 76Ac 76B 76Bb 76Bf 76Bh

Notes: A vernal-autumnal species, common at cultivated areas, orchards, etc.

26) *Autophila (Cheirophanes) chamaephanes* Boursin, 1940

Synonym(s): *chamaephanes* Boursin, 1940 Original Reference: *Autophila chamaephanes* Boursin, 1940, Mitt. münch. ent. Ges. 30: 528-529, Taf. xi fig. 86. Holotype ♂: [Azerbaidzhan]: Transkaukasien (Elisabethpol) (coll. Schwingenschuss). Range (in code): AZ Kir Cc TR RU KG Tk Dj Ii 05 30 65 05A 30D 30Dx 65A 65Am 65Am4 65D 65Dva

Notes: An aestival species, uncommon.

27) *Autophila (Cheirophanes) ligaminosa* (Eversmann, 1851)

Synonym(s): *ligaminosa* Eversmann, 1851; *caucasica* Herz, 1904. Original Reference: *Amphipyra ligaminosa* Eversmann, 1851, Bull. Soc. imp. nat. Moscou 24: 630. Syntypes: Georgien, Armenien. Range (in code): DZ Sbd Btma Abe Hrh HV TR GR Rd Cc GG Smt Akh Cc AM AZ Kir LB UZ Fe IQ Brs RU Da IR Fa Elb Hz Ss KK Ik Feg KG Tk PK Gg Hu Bl Qu AF Ca AE OM 05 06 08 13 14 17 18 25 33 36 42 46 50 56 65 73 05A 06C 06Cb 13C 13Cf 25F 36D 36F 36Fb 56F 65A 65Am 65Am1 65D 65Dh 65Dy 65Dv 73C 73Cd

Notes: An aestival species, uncommon.

28) *Behounekia freyeri* (Frivaldsky, 1835) Map 17

Synonym(s): *freyeri* Frivaldsky, 1835; *lintea* Freyer, 1842; *orontii* Herrich-Schäffer, [1851]; *senescens* Eversmann, 1856; *#linthea* Lederer, 1870 Original Reference: *Xylina freyeri* Frivaldsky, 1835, Tarsas Tud. Akad. Evkönyv. 2: 273. Syntypes: Balkans. Range (in code): MK BG GR TR AM GG AZ Kir Cc RU Da SY 01 05 06 13 18 21 25 30 32 35 36 38 42 46 47 49 50 51 56 62 65 73 05A 13A 13Ab 13Ax 13G 13Ga 13Gs 13Gw 21N 21Nb 30B 30Bd 30Bx 36D 36Db 38H 49F 49Fb 56F 65A 65Am 65Am1 65D 65Dg 65Dh 65Ds 65F 65Fç 65Fg 65Fu 65K 65Kl 65L 65Lb 65A 65Am 65Am4 65An 65N 65Nc 65Np 65Np2 65Nm 73A 73Ab

Notes: A vernal species, common, with a single generation in a year.

29) *Bryomima defreina* Hacker, [1987]

Synonym(s): *defreina* Hacker, [1987] Original Reference: *Bryomima defreina* Hacker, [1987], Spixiana 9 (1): 47-48, figs. Holotype ♂: [Türkei]: Hakkari, Tanin Dağları, W-Seite, Elkek geçidi, 2300m, 6km NO Uludere 26.vi.1984 (leg. Wolf, coll. Hacker). Range (in code): TR 30 47 56 65 73 30B 30Bd 30Bx 30Be 30Bf 30Bj 30Bj1 56F 65A 65Am 65Am1 65Am4 65D 65Df 65F 65Fp 65Fz 65Fr 73A 73Ab 73C 73Cd

Notes: An aestival species, common.

30) *Callopietria latreillei* (Duponchel, 1827)

Synonym(s): *latreillei* Duponchel, 1827; *quieta* Treitschke, 1826; *roseitulum* Walker, [1858]; *rakoto* Viette, 1865; *rechingeri* Koutsafikis, 1973. Original Reference: *Noctua latreillei* Duponchel, 1827, [in] Godart & Duponchel, Hist. nat. Lépid. Pap. Fr. 7: 327. Range (in code): MG Md Cn MA DZ Ges Bsa Mii Dhm Sbd TN LY PT ES FR Co Sa Si IT MT CH AT HU RO YU AL BG GR Cr TR Cc RU Da LB Bsa IL Pa Hf IN Pj NP AF IR Ke Fa Hz Ss Gh Gls Kh PK Cls Sw Alp Kkar ZA Tva Gau Pre Mpu Tst Nha Nta Kzu Ec ZR KE SA ET ET24 SO Zai YE AE PK OM Ld Cls 01 03 05 06 07 08 16 31 32 33 35 42 44 46 50 51 52 65 01C 05A 16A 31K 31Ka 31Ka3 33A 33Ad 44L 44Lc 46G 46Gf 65A 65Am 65Am4

This is apparently new record to Van fauna!

31) *Calophasia lunula* (Hufnagel, 1766)

Synonym(s): *lunula* Hufnagel, 1766; *linariae* [Denis & Schiffermüller], 1775. Original Reference: *Phalaena lunula* Hufnagel, 1766, Berl. Mag. 3(3): 394. Type(s): [Germany]: Berlin. Range (in code): ES FR Si IT GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG Hsk GR TR GG Smt Bjo Cc DK NO SE FI EE LV LT RU Ro Kr St MD UA BY AF CA IR Lo Elb Th Kdj KK Skm KG Tu Tk 01 04 05 06 08 13 14 18 24 25 30 33 36 42 49 50 51 56 58 65 05A 06R 06Rb 13A 13Ab 13Ax 13G 13Ge 13Gs 13Gw 30B 30Bg 36D 36F 56F 56Fh 56Fn 58G 65A 65Am 65Am1 65Bx 65G 65Ge 65F 65Fa 65H

32) *Calophasia opalina* (Esper, [1796])

Synonym(s): *casta* Borkhausen, 1793 *nec* Pall., 1767; *opalina* Esper, [1796]; *biroi* Aigner, 1901; *naruenensis* Spuler, 1910; *castior* Stauder, 1923. Original Reference: *Calocasia opalina* Esper, [1796], Die Schmett. 4(2/2): 11, Taf. 182, fig. 3. Type(s): Italien. Range (in code): MA DZ Clo PT ES FR IT CH AT SK RO YU AL

BG GR TR GG Lag Cc AM RU Ro Kr Ich Da MD UA BY IQ LB Bsa SA IR Fa Kh Elb Th CN Ui UZ Fe AF Hk KK Ik Skm KG TJ Pm MN 03 05 06 16 18 24 36 50 51 56 58 65 05A 06K 06Kc 16A 56F 56Fv 65A 65Am 65Am1 65F 65Fa 65N 65Nc 65Nc4

33) *Catocala (Mormonia) spona* (Linnaeus,1767)

Synonym(s): *spona* Linnaeus,1767; *rejecta* Fischer v. Waldheim,1820; *laeta* Oberthür,1907; *purpurea* Oberthür,1922 Original Reference: Phalaena spona Linnaeus,1767, Syst. Nat. (Edn.12)1: 841. Type(s): Germania. Range (in code): MA DZ DhM TN Sbd PT ES FR Sa Si IT GB BE NL LU DE CH AT PL CZ SK HU RO YU BG GR TR DK SE FI EE LV LT RU Cc Ro Kr St Ich MD UA BY KG Uk 65 65A 65Ai
Notes: An aestival species, uncommon. This is apparently new record to Van fauna!

34) *Catocala (s.str.) abacta* Staudinger,1900

Synonym(s): *abacta* Staudinger,1900; *irana* Brandt,1938; *iranica* Hacker,1986. Original Reference: Catocala abacta Staudinger,1900, Dt. ent. Z., Iris 13: 113-114. Type ♂: [Türkei]: [Kahramanmaraş Prov.]: "Marasch", leg. Armenier Haradjian. Range (in code): TR IR Ab Kd Sqq Sdt Mrv Bne Fa Kz Mia Es IQ Shq Akr 01 02 07 12 13 21 23 24 30 42 44 46 47 48 56 62 65 72 73 01H 07A 12A 12Aa 13C 13Cf 21L 21N 24E 24Ea 30B 30Ba 30Bd 30Bx 30Be 30Bf 30Bi 30Bj 30Bl 30D 30Dt 30Dx 46D 48D 56F 56F6 62H 65A 65Am 65Am1 65D 65Dh 65Dv 72E 72Eb 72Ec 73C 73A 73Ab 73Cd 73D 73Da 73De
Notes: An aestival species, common.

35) *Catocala (s.str.) conversa* (Esper,1783) Map 18

Synonym(s): *conversa* Esper,[1787]; *pasythea* Hübner,[1809]; *agamos* Hübner,[1813] Original Reference: Phalaena conversa Esper,[1787], Die Schmett. 4:368, Tab.105 Noct. 26B fig. 1-3. Syntypes: Italia: Florenz. Range (in code): MA DZ Lbs Tun DhM Hrh Dzc Abe Sbd BtNa TN PT ES Mu FR Co Sa Si IT DE CH AT CZ SK HU RO YU AL BG GR Cr TR CY DK RU Ro Kr MD UA Cc AM GG AZ Kir LB Bsa IL Pa JO SY Hal 01 06 07 08 11 13 16 17 22 25 27 30 33 35 42 45 48 51 56 65 70 06R 06Rb 13G 13Gg 16A 25C 25Ca 33G 48D 56F 56Fc 65A 65At 65At5 65D 65Dv
Notes: An aestival species, uncommon.

36) *Catocala (s.str.) elocata* (Esper,[1787])

Synonym(s): *elocata* Esper,[1787]; *marita* Hübner,[1813]; *nurus* Hübner,[1822] Original Reference: Phalaena elocata Esper,[1787], Die Schmett. 4: 127, Tab.99 Noct.20 fig. 1,2. Syntypes: [Deutschland]: Erlangen, Uffenheim. Range (in code): MA DZ TN PT ES Mu FR Co Sa Si IT MT NL LU DE CH AT PL CZ SK HU RO YU AL BG GR Cr Rd CY TR GG Tbl Smt Bjo AZ Kir Len Cc IR Ab Oru Sro Elb Th Km Qz Kz Yas Skh SE LT RU Ro Kr St Nt Ing Kyi Da MD UA BY LB IL Pa SY IQ Bgd JHa JO CN Ui Ku Chk UZ Fe PK Swa Mdy BtNa Bdj DhM Sfr Abe Clo Anna Orn 01 08 13 16 17 18 21 33 38 46 48 50 51 56 58 60 62 63 65 01K 13C 13Cf 13G 13Gü 13Gw 16A 21N 21Nb 33G 36F 36Fb 38H 38Hc 46G 46Gf 48D 51B 51Ba 56E 56Eh 56F 56Fb 58G 58R 62G 62Gb 63E 65A 65Am 64Am4 65D 65F 65Fa 65Fm 65Fp 65Fz 65K 65Kp 65N 65Nc 65Np2 65Nm
Notes: An aestival-autumnal species, common.

37) *Catocala (s.str.) lupina* Herrich-Schäffer,[1851]

Synonym(s): *lupina* Herrich-Schäffer,[1851]; *detrita* W.Warren,1913 Original Reference: Catocala lupina Herrich-Schäffer,[1851], Syst. Bearb. Schmett. Eur. 2:409. Type(s): [Russia]: Sarepta. Range (in code): IT YU BG GR TR AZ Hkd Kir Cc RU Ro MD UA BY IR Fa Lo IQ KG Uk At 01 06 08 13 18 25 32 38 50 51 58 62 65 06C 06b 38H 38Ha 58G 65A 65Ac 65Ac3 65F 65Fm 65Fa 65Fş 65Fq 65L 65Lb
Notes: An aestival species, uncommon.

38) *Catocala (s.str.) mesopotamica* Kuznesov,1903 Map 19

Synonym(s): *hetaera* Staudinger,1895 nec Stgr.,1892; *aspasia* Staudinger,1897 nec Streck.,1874; *mesopotamica* Kuznesov,1903 Original Reference: Catocala mesopotamica Kuznesov,1903, Revue Russk. Ent. 3: 74. Type: Turkey: Mardin. Range (in code): TR IR Km Krd Fa Lo By Kd Bne Mrv Kaz Mia IQ 13 30 46 47 56 65 13G 13Gg 30D 30Dt 46G 46Gf 47D 56F 56Fb 56Fv 65A 65Am 65Am4
Notes: An aestival species, uncommon. This is apparently new record to Van fauna!

39) *Chazaria incarnata* (Freyer,1838)

Synonym(s): *incarnata* Freyer,1838; *boisduvali* Boisduval,1840. Original Reference: Heliothis incarnata Freyer,1838, Neue. Beitr. Schmett. 3:91, Tab. 256, fig. 4. Type(s): [Türkei]: Konstantinopel [=Istanbul]. Range (in code): DZ Orn Ahr BSA Ges Agi PT ES Mu IT RO YU BG GR TR GG Smt Tbl AZ Kir AM Cc RU Ro St Da MD UA BY IR Fa Com Elb Th Kdj Mz Ab Mak Ss Hz B-A Bu Dlk IQ AF Hr Pli IL Pa SY 01 05 06 07 13 18 20 21 23 24 25 33 34 36 38 39 42 44 45 46 50 51 58 63 65 71 01H 05A 06R 13A 13Ab 13Ax 21N 21Nb 21Nh 23I 36D 36Db 44L 44Lc 58N 65A 65Ai 65F 65Fa 65Fp 65I 65M 65Md
Notes: A vernal species, uncommon, with a single generation in a year.

40) Chersotis (s.str.) alpestris (Boisduval,[1837])

Synonym(s): *alpestris* Boisduval,[1837] Original Reference: *Agrotis alpestris* Boisduval,[1837], Icon. Hist. Lépid. Eur. 2: Taf. 76, figs.4,5. Syntypes: [Europa]. Range (in code): ES FR IT CH AT RU Ro Ich Ing Da Ur UA Cm TR IR Kh KuB Mz Elb Th Lo Cc AM KK Ik 04 12 13 25 29 36 42 51 58 65 76 13G 13Gü 13Gw 25C 29F 42B 65A 65Ac 65Ac3 76C Prep. no: GP1035[♂]

Notes: Confined to subalpine and alpine zones. An autumnal species, with a single generation in a year. This is apparently new record to Van fauna!

41) Chersotis (s.str.) capnistis (Lederer,[1870])

Synonym(s): *capnistis* Lederer,[1870]; *neara* Püngeler,1902. Original Reference: *Agrotis capnistis* Lederer,[1870], Horae Soc. ent. ross. 8 (1): 14, pl.2 fig.1. Type: [Iran], "Astrabad" (=Gorgan). Range (in code): GR RU Ur Or Gub TR Cc IR Zj Fa Ss Elb Th AF TM Mrw CN Ui IL Pa He 01 03 06 08 18 25 29 32 36 38 42 43 46 50 51 56 58 60 65 66 70 01L 01La 06B 06K 06Kc 06R 25T 42B 50G 50Gd 56F 56Fq 65A 65Ab 65Aba 65Bx 65D 65Df 65F 65Fa 65Fp 65Fz 65G 65Ge 70C 70Cb Prep. no: GP1232[♂]

Notes: Confined to subalpine and alpine zones. An autumnal species, with a single generation in a year.

42) Chersotis (s.str.) fimbriola (Esper,[1798])

Synonym(s): *fimbriola* Esper,[1798] Original Reference: *Phalaena fimbriola* Esper,[1798], Die Schmett. 4(2/2): 53, Taf.193, fig.3. Type(s): Ungarn: [Budapest]. Range (in code): MA Rf ES FR Si IT CH AT SK HU RO YU AL BG GR Cr TR Cc AM Eri Geg GG AZ Nv Ord RU Ro Kb Nt Ich MD UA Cm BY IR Kh KuB Elb Kdv Dam Fa Bk By Es Ha Zj Mz Th Ab Bne Sqg Mrv Oru Sdt Lo Kd TM IQ 01 03 04 05 06 08 12 13 18 19 23 24 25 29 30 36 38 42 44 46 49 50 51 56 58 60 65 66 69 70 73 76 04D 04Da 04I 05A 06A 06Aa 06B 06Bb 06C 06Cb 06K 06Kc 06R 06Ra 06Y 06Yb 08H 08Ha 08Hb 13A 13Ab 13Ax 13B 13C 13Cf 13G 13Gf 13Gy 13Gü 13Gw 19C 23I 25C 25Ca 25F 29A 29Ab 30B 30Bd 30Bx 30Be 30Bg 30D 30Dt 36D 36Df 36F 36G 38G 38Ga 42B 42D 42O 44F 44Fa 44L 44Lb 44I 46G 49E 49Ea 50G 50Ga 56F 56Fb 56Fq 56Fs 58N 60C 65A 65Ac 65Ac3 65Ab 65Aba 65B 65Bn 65Bn1 65Bo 65Bx 65D 65Df 65F 65Fa 65Fm 65Fp 65Fz 65G 65Ge 65K 65N 65Np1 65Np2 65Nm 66P 70C 70Cb 71C 71Cd 73C 73Cd 73D 73Da 76C Prep. no: GP865[♂] GP1090[♂]

Notes: Confined to subalpine and alpine zones. An aestival-autumnal species, with a single generation in a year. Flight activity only nocturnal.

43) Chersotis (s.str.) juvenis (Staudinger,1901)

Synonym(s): *caelebs* Staudinger,1900 *nec* Stgr.,1896; *juvenis* Staudinger,1901; *clarivenosa* Draudt,1936. Range (in code): AM Cc IR Fa Kh Elb Th Kd Snj TR 02 04 06 13 24 25 30 36 38 42 46 50 51 58 60 65 66 69 73 04D 04Da 06B 06Bb 25N 30B 30Bj1 36D 36Db 50G 50Gd 58G 65A 65Ab 65Aba 65Bx 65F 65Fa 65G 65Ge 73C 73Cd

Notes: Confined to alpine zones. An autumnal species, with a single generation in a year. Flight activity only nocturnal.

44) Chersotis (s.str.) laeta (Rebel,1904)

Synonym(s): *laeta* Rebel,1904 Original Reference: *Agrotis fimbriola* var. *laeta* Rebel,1904, Annln naturh. Mus. Wien 19:209. Syntypes: [Turkey]: Konia; Libanon. Range (in code): YU B-H AL GR Cr TR Cc AM Geg RU Ing Da IR Fa Bk Ha Zj Elb Th UA? Cm? LB Bsa IL Pa He 01 03 04 05 06 08 14 18 24 25 28 29 30 32 33 36 42 44 46 49 50 51 58 60 65 66 69 70 71 04D 04Da 04I 05A 06R 06Re 08H 08Hb 12C 25C 25Ca 25F 25M 25T 29A 29Ab 30B 30Bf 30D 30Da 36D 36Df 38G 38Ga 42B 42J 42X 42Xa 42M 46G 50G 50Ga 58G 58N 65A 65Ab 65Aba 65B 65Bo 65Bx 65D 65Df 65Dg 65Dga 65F 65Fm 65Fz 65K 65Kb 65N 65Np2 65Nm 70C 70Ce 71B 71Ba Prep. no: GP866[♂] GP941[♂]

Notes: Confined to subalpine and alpine zones. An aestival-autumnal species, with a single generation in a year. Flight activity only nocturnal. Sympatric with *Chersotis fimbriola*.

45) Chersotis (s.str.) larixia (Guenée,1852)

Synonym(s): *larixia* Guenée,1852. Original Reference: *Agrotis larixia* Guenée,1852, [in] Boisduval & Guenée, Hist. Nat. Ins., Noct.1: 310. Type(s): [France]: Alpes de Digne. Range (in code): ES An Snv FR IT CH RU Nt Da Kus TR Cr IR Kh KuB Zj Mz Elb Dam LB Bsa Cc GG AM AZ TM 04 12 25 30 38 42 50 51 58 65 69 73 76 04D 04Da 25C 25Ca 42B 51B 51Bc 58G 65A 65Ab 65Aba 65Bx 65G 65Ge 73C 73Cd 76C Prep. no: GP873[♂]

Notes: An aestival-autumnal species, with a single generation in a year. Flight activity only nocturnal.

46) Chersotis (s.str.) margaritacea (Villers,1789)

Synonym(s): *margaritacea* Villers,1789; *i-intactum* Hübner,[1803]; *#abruzzensis* Corti & Draudt,1933; *espunensis* Calle,1982 Original Reference: *Phalaena margaritacea* de Villers,1789, Linn. Ent.2: 272, Taf.5, fig.16. Type(s): Europa. Range (in code): MA DZ PT ES Mu FR Sa? Si IT BE LU DE CH AT PL CZ SK HU

RO YU BG GR TR RU Ro Kr St Nt Ich Ing Da MD UA BY AM Cc GG Smt Bjo AZ TM Kp LB Us IR Elb Th Gh LB Bsa IL Pa
He 01 06 08 14 16 18 25 33 36 42 46 50 56 58 61 65 70 06E 06Ea 06R 06Rb 06Rq 06Y 06Yb 14I 16A 42D 56F 56Fb 58G
65A 65Am 65Am4 70C 70Cb Prep. no: GP864[♂]

Notes: An autumnal species, with a single generation in a year. Flight activity only nocturnal. This is apparently new record to Van fauna!

47) **Chloantha hypericii (Fabricius, 1787)** **Fig.8**

Synonym(s): *#hyperici* [Denis & Schiffermüller, 1775; *hypericii* Fabricius, 1787 Original Reference: Noctua hypericii Fabricius, 1787, Mant. Ins. 2: 167, nr. 217. Type(s): Austria: [Wien]. Range (in code): PT ES FR Co Sa Si IT MT GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR Cr TR AZ AM GG Cc CY IQ TIH IL Pa Hf SY JO DK NO SE FI LT RU Ro Kr St Ich Da MD UA BY IR Kh KuB Fa Ha Zj Gls Gor Elb Clu Mz Dam Th Mia Kd Mrv AF TM Kp LB Bsa 01 04 05 06 07 08 12 13 14 15 16 17 18 24 25 28 30 31 32 33 35 36 42 44 46 50 51 56 58 60 61 62 65 69 73 01A 05A 06R 06Rb 13G 13Gg 13Gy 13Gü 13Gs 13Gw 14I 16A 30D 30Dx 31K 31Ka 31Ka7 42B 42D 44L 44Lc 56A 56F 58N 65A 65Ac 65Ac3 65Ai 65Am 65Am1 65D 65Dg 65F 65Fd 65Fr 65Fm 73A 73Ad 73Ad2

Notes: An aestival-autumnal species, with a prolonged generation in a year. Flight activity only nocturnal. Larva feeds on Hypericum.

48) **Cleoceris scoriacea (Esper, [1789])** **Fig.9, Map 20**

Synonym(s): *scoriacea* Esper, [1789]; *capreae* Hübner, [1803]. Original Reference: Phalaena scoriacea Esper, [1789], Die Schmett. 3(3): 22, Taf. 83, figs. 4, 5. Syntypes: Germany. Range (in code): ES FR IT DE CH AT CZ SK HU RO YU BG Plv GR TR Cc RU Kr Nt Da 01 05 06 12 21 25 33 35 36 39 44 49 56 65 66 70 01L 01La 01K 05A 06C 06Cb 06E 06Ea 06R 06Rb 12E 12Eb 21N 21Nb 25D 25E 36F 36Fb 39G 44F 44Fa 44Fb 49E 49Ea 49F 49Fe 56F 65A 65Am 65Am4 65N 65Nm Prep. no: GP594[♂]

Notes: An autumnal species, with a single generation in a year. Flight activity only nocturnal.

49) **Clytie (s.str.) syriaca (Bugnion, 1837)**

Synonym(s): *syriaca* Bugnion, 1837; *gentilitia* Freyer, 1848. Original Reference: Ophiusa syriaca Bugnion, 1837, Annls Soc. ent. Fr. 1837: 442. Neotype: Turkey: Adana: Feke 6km N, 100m, leg. Hacker (ZSM). Range (in code): AT RO YU AL BG GR Cr CY LB Bei Beq IL Pa SY TR RU Cc St Ich Da Der MD UA BY IR Fa Ahz IQ Agh Amr Bgd KG Tk Tks Dj Aa KK Skm UZ 01 05 06 07 08 13 16 18 21 23 24 25 30 31 33 35 42 44 56 62 65 70 05A 07B 08C 08H 08Ha 13C 13Cf 16A 21N 21Nb 30B 30Ba 30Bd 30Bx 30Bf 33A 33Ac 56F 56Fé 56Fç 65A 65Ai 65D 65Dh 70C 70Ce

Notes: An aestival species, with a single generation in a year. Flight activity only nocturnal.

50) **Colobochyla (Caspicastra) platyzona (Lederer, 1870)** **Map 21**

Synonym(s): *platyzona* Lederer, 1870; *#platizona* Hacker, 1990. Original Reference: Madopa platyzona Lederer, 1870, Annls Soc. ent. Belg. 13: 37, 47, pl. 1 fig. 13. Syntypes 3[♀]: [Azerbaijan]: Helenendorf [Kirovabad]. Range (in code): TR AZ Kir Cc IR Fa Lo Kdj Elb Ke Th Kd Bjr Zj Mia Kaz Km TM Kp IQ Rvw 30 56 65 30D 56F 56Fv 65A 65Ai 65Am 65Am1 65D 65Dw

Notes: An aestival species, with a single generation in a year. Flight activity only nocturnal.

51) **Cornutiplusia circumflexa (Linnaeus, 1767)**

Synonym(s): *circumflexa* Linnaeus, 1767; *lunata* Fabricius, 1787; *flexuosa* Donovan, 1807; *daubii* Freyer, 1838; *graphica* Herrich-Schäffer, 1851; *patefacta* Walker, [1858]; *reticulata* Moore, 1882; *clarescens* Pinker & Bacallado, 1975; *#unata* Kononenko & Pinratana, 2005 Original Reference: Phalaena circumflexa Linnaeus, 1767, Syst. Nat. (Edn. 12) 1: 844. Type(s): Europa. Range (in code): Md Cn PT ES Si IT GB CH RO AL BG GR TR Cc CY IQ kut Kro Amr Mj Agh FI RU MD UA BY IR Fa By Kz Yas Hz Ss Ke Kh Ab Oru Mak Elb Th Mz CN Ui Ku KK Ik UZ KG DsA AF Ca Hr Gbh ZA Gau Pre Tva Ec Grh Cto Wca Nta Kzu Est IN NP LK LB Bsa IL Pa Hf SY JO TH CMa Php MM GG AM AZ Cc Skh Sdt Ak Ar Gh Gls Kh Se Ha Kd Km By Bk Es Bu Ke Hz Ss Snj Lo Kaz Mia Dlk B-A TM Kp N-A TJ Chr Pm Ro Kr Kb Kc Nt Ich Da ET ET24 ET36 ET86 ET196 DJ DJ44 Smt Bjo Lag Dar Nv Ord Hal 01 04 05 06 07 08 13 16 18 20 21 22 24 25 27 30 31 33 34 35 38 46 47 48 50 51 56 60 63 65 66 73 76 80 05A 13A 13Ab 13Ac 13Ax 13G 13Gü 13Gw 13Gz 16A 21N 21Nh 47G 56F 63D 65A 65Ac 65Ac3 65Am 65Am2 65An 65Ai 65Bx 65D 65Dl 65Dlc 65Ds 65G 65Ge 65F 65Fd 65Fr 65Fu 65K 65Kp 65L 65Lb 65N 65Nc 65Nc4 65Nm 65Np 73A 73Ac 73Al 76A 76Ac

Notes: A vernal-autumnal species, common at cultivated areas, orchards, etc.

52) **Cosmia (Calymnia) trapezina (Linnaeus, 1758)**

Synonym(s): *trapezina* Linnaeus, 1758; *rhombica* Hufnagel, 1766; *badiofasciata* Teich, 1883; *obscura* Aurivillius, 1888; *exigua* Butler, 1881 [ssp.]; *saturata* Staudinger, 1892 Original Reference: Phalaena trapezina Linnaeus, 1758, Syst. Nat. (Edn. 10) 1: 510. Type(s): [Europa]. Range (in code): MA DZ PT ES FR Co Sa Si IT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR TR Cc GG Smt Bjo Lag AZ Kir IR Ha Mz Elb Th Kd Mrv Gls DK NO SE FI EE LV LT RU Ro Kr St Kc Nt Kb Ich Ing Sb MD UA BY JP 05 06 08 12 13 14 16 17 18 30 34 37 43 53 65 75 67 81 05A 06R 06Rb 08H 08Hc 12E 12Ed 13B 13G 13Gg 14B 14Ba 16A 30D 30Dt 34A 37P 53N 65A 65Ai 65K 65Kl 75F 75Fd Prep. no: GP1094[♂]

Notes: An aestival species, with a single generation in a year. Flight activity only nocturnal.

53) *Cryphia (Bryoleuca) raptricula* ([Denis & Schiffermüller],1775)

Synonym(s): *raptricula* [Denis & Schiffermüller],1775; *divisa* Esper,[1791]; *divisa* Esper,1791; *palliola* Borkhausen,1792; *pomula* Borkhausen,1792; *deceptricula* Hübner,[1803]; *carbonis* Freyer,1849; *felina* Eversmann,1852; *oxybiensis* Millière,1875; *#striata* Staudinger,1879; *eretina* Calberla,1888; *raptriculoides* Turati,1912; *bryophiloides* Rothschild,1914; *#persica* Strand,1915; *cretica* Reisser,1962 Original Reference: *Noctua raptricula* [Denis & Schiffermüller],1775, Ankündigung syst. Werkes Schmett. Wienergegend: 89. Type(s): [Austria]: Vienna district. Range (in code): MA DZ TN EG PT ES Mu FR Co Sa Si IT MT GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR Cr TR GG AM AZ Cc CY DK NO SE FI EE LT RU LB Bsa IL Pa SY Hal JO EG IR Fa Lo By Yas Ss Es Ke Ha Mz Kz Kdj Elb Dam Mia Km Kd Snj IQ Tkr AF Gbh Pli Srb CN Ui PK KG Tk Dj KK Skm Ik TrA Feg UZ N-A Ro Kr St Kb Nt Ich Da Kir Bak Nv Ord Bne Mrv Kh Ges Agi Sfr Abe Sbd Blid Hrh 01 03 05 06 07 08 12 13 19 24 25 28 30 32 33 36 39 42 46 49 50 51 56 58 62 65 66 70 73 01H 05A 06R 06Rb 13A 13Ab 13Ax 13G 13Gü 13Gw 30B 30Bd 30Bx 42J 42X 42Xa 46G 46Gf 49E 49Ea 56F 56Fa 56Fc 56Fj 56F3 56Fs 56Fq 56Fb 56Fc 56Fv 56Fi 65A 65Ac 65Ac3 65F 65Fr 65Fp 65Fz 65Fm 65Fg 65N 65Np 65Np2 65Nm 73A 73Ad 73Ad2

Notes: An aestival species, with a single generation in a year. Flight activity only nocturnal at rocky places. Often sympatric with other *Cryphia* species.

54) *Cryphia (Bryophila) occidentalis* (Osthelder,1933)

Synonym(s): *occidentalis* Osthelder,1933 Original Reference: *Bryophila centralis* ssp. *occidentalis* Osthelder,1933, Mitt. münch. ent. Ges. 33 (2): 46. Syntypes 1♂ 2♀: [Türkei]: Marasch (ZSM). Range (in code): TR IR Elb Th Fa Mia Shr 13 30 46 56 58 65 13A 13G 13Gg 30B 30Bd 30Bc1 30Bx 30D 30Dt 56F 56Fb 65A 65Am 65Am1 65Ai 65B 65Bo 65Bx 65D 65Df 65G 65Ge 65F 65Fa 65Fh 65Fm 65Fr 65Fp 65Fz 65K 65Kl 65L 65Lb 65N 65Np2 65Nm

Notes: An aestival species, with a single generation in a year. Flight activity only nocturnal at rocky places. Often sympatric with other *Cryphia* species.

55) *Cryphia (Bryopsis) amasina* (Draudt,1931)

Synonym(s): *amasina* Draudt,1931 Original Reference: *Bryophila muralis amasina* Draudt,1931, [in] Seitz,A., Grossschmett. Erde Suppl. 3: 19, pl.2 row g. Type: [Turkey]: "Amasia". Range (in code): RO MK BG GR Cr CY TR TM IR Kh LB IL Pa JO YE RU Cc St Ich Da AM 01 05 06 08 12 13 18 25 31 33 42 56 62 65 75 05A 08H 08Ha 08Hb 25F 31K 31Ka 31Ka3 33A 33Ac 56F 56Fj 65A 65Am 65Am4 65D 65Dh 65Dv 65F 65Fa 65L 65Lb 75F 75Fa

Notes: An aestival species, with a single generation in a year. Flight activity only nocturnal at rocky places. Often sympatric with other *Cryphia* species.

56) *Cryphia (Euthales) algae* (Fabricius,1775)

Synonym(s): *algae* Fabricius,1775; *degener* [Denis & Schiffermüller],1775; *alni* Fabricius,1787; *calligrapha* Borkhausen,1792; *mendacula* Hübner,[1813]. Original Reference: *Noctua algae* Fabricius,1775, Syst. Ent.: 614. Type(s): Germania. Range (in code): DZ Abe Btina Dhm TN Rbt MA PT ES Mu FR Co Sa Si IT MT GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR CY TR IQ DK SE FI LT RU Ro Kr St Kb Ich MD UA BY IL Pa GG Smt Bjo Lag Kir AM AZ Cc IR Gls 05 06 08 13 14 15 16 18 20 25 30 32 33 42 46 56 60 65 66 05A 06C 06Cb 06R 06Rb 13A 13B 13G 13Gg 16A 30D 30Dt 42J 42X 42Xa 56F 56Fs 65A 65Ab 65Aba 65F 65Fp 65Fz 65L 65Lb

Notes: An aestival species, with a single generation in a year. Flight activity only nocturnal at rocky places. Often sympatric with other *Cryphia* species.

57) *Cryphia* (s.str.) *receptricula* (Hübner,[1803]) **Fig. 26**

Synonym(s): *strigula* Borkhausen,1792 *nec* Thunb.,1788; *receptricula* Hübner,[1803]; *stictica* Ménétériés,1859. Original Reference: *Noctua receptricula* Hübner,[1803], Samml. eur. Schmett., Noctuae: Taf. 6 fig.27. Type(s): [Europa]. Range (in code): si IT CH AT PL CZ SK HU RO YU BG GR TR RU Cc Ro St Kyi Kc Kr Da MD UA BY AM AZ Kir IR Bk By Es Fa Mia Com Lo AF LB JO 05 06 08 12 16 23 30 46 50 56 60 62 65 66 05A 06R 06Rq 12A 12Aa 16A 30D 30Dt 56F 56Fa 56Fb 56Fc 56Fj 56Fc 56Fi 56Fs 56Fq 65A 65Ai Prep. no: GP2394♂

Notes: An aestival species, with a single generation in a year. Flight activity only nocturnal at rocky places. Often sympatric with other *Cryphia* species.

58) *Desertoplusia colornata* Varga & L.Ronkay,1991 **Fig. 10, Map 22**

Synonym(s): *bella* auct. *nec* Chr.,1887; *colornata* Varga & L.Ronkay,1991; *#colomata* Hacker,1992 Original Reference: *Desertoplusia colornata* Varga & L.Ronkay,1991, Acta zool. Hung. 37: 305-307, figs. pl.3 figs. 42-43. Holotype ♂: Turkey: Ağrı Pr., 7km W. of Aydıntepe, 2200m (leg. G.Laszlo & G.Ronkay) (coll. G.Ronkay). Range (in code): TR IR Fa Kh Ab Oru Mak Tbz Elb Th Kdj Plr Mia Kz Yas Skh 04 07 25 30 65 73 04D 04Da 07P 25C 25Ca 30B 30Be 30D 30Da 30Db 65A 65Ab 65Aba 65B 65Bo 65Bx 65C 65F 65Fz 65G 65Ge 65H 65Ha 73C 73Cd

Notes: An aestival species, with a single generation in a year. Flight activity only nocturnal at alpine zone.

59) *Dichagyris (Albocosta) flammatrix* ([Denis & Schiffermüller], 1775)

Synonym(s): *flammatrix* [Denis & Schiffermüller], 1775; *bimaculata* Milliere, 1885. Original Reference: Noctua flammatrix [Denis & Schiffermüller], 1775, Ankündigung syst. Werkes Schmett. Wienerlegend: 80. Type(s): [Austria]: Vienna district. Range (in code): MA PT ES FR Co Si IT GB DE CH AT PL CZ SK HU RO YU BG GR Cr TR GG Akh Smt Ce AZ Hkd IR Fa Yas By Lo Kh Mz Elb Kdj Dam Kz LB Bsa CY IL Pa SY JO Sn EG IQ Mos TIH DK RU At Sb MD UA BY CN Ui Ii KG Tk Dj AF Hr Pli Gbh Ch PK Rw Ti SI UZ N-A KK TrA Ro St Nt Kb Ich Ing Kyi Da Tbl Bjo Kir Lag Nv Ord Bak Len Gls Kh DZ Sfr Sbd Ges Psu Gg Sai 01 04 06 07 13 21 24 25 28 30 32 33 36 38 39 43 44 45 46 47 49 50 51 53 58 60 61 63 65 66 70 06Y 06Yb 13A 13Ab 13Ax 13G 13Gs 13Gw 44L 44Lc 50G 50Gd 53N 58G 60C 63L 65A 65Ai 65Am 65Am4 65At 65At5 65Ab 65Aba 65D 65Df 65F 65Fe 65Fr 65Fp 65Fz 65K 65Kl 65Kd 65Kg 65N 65Np 65Np6 65Nm 70C 70Cf Prep. no.: GP609♂

Notes: An aestival species, with a single generation in a year. Flight activity only nocturnal.

60) *Dichagyris (Yigoga) nigrescens* (Hofner, 1888)

Synonym(s): *nigrescens* Höfner, 1888 Original Reference: Agrotis nigrescens Höfner, 1888, Societas ent. 2: 121. Syntypes: [Germany]: Wolfsberg. Range (in code): ES FR Si IT DE CH AT CZ SK HU RO YU AL BG GR TR RU Cc Ro Nt Kr Ich LB JO IL Pa IQ Shq IR Fa Th Elb Kd Gls 01 05 06 07 12 13 18 20 25 30 32 33 34 37 42 45 46 50 56 65 66 73 05A 06R 06Rb 06Re 12E 13C 13Cf 13G 13Gy 30B 30Bd 30Bc1 30Bx 30Bd 30D 30Da 30Dx 34A 37P 56F 56Fb 56F1 56Fa 56Fq 65A 65Ai 65Bx 65D 65Dh 65Dn 65F 65Fp 65Fz 65G 65Ge 73A 73Ab 73D 73De Prep. no.: GP482♂

Notes: An aestival species, with a single generation in a year. Often very common. Flight activity only nocturnal.

61) *Dichagyris (Yigoga) sincera* (De Freina & Hacker, 1985)

Synonym(s): *sincera* De Freina & Hacker, 1985. Original Reference: Yigoga celsicola ssp. sincera De Freina & Hacker, 1985, Entomofauna 6 (19): 242-245, Abb. 1-2. Holotype ♂: [Türkei]: Kleinasien: Hakkari: Tanin Tanin Paß, 2000-2300m, 12-13.7.83 (leg. & coll. De Freina). Range (in code): TR Cc IR Zj Ab Kd Lo Fa 04 08 12 13 23 25 30 36 46 50 58 65 73 12A 12Aa 13D 13Da 13G 13Ge 23I 30Be 30Bi 30Bj 30Bg 30D 30Da 30Dt 58N 65A 65Ai 73C 73Cd

Notes: Like the preceding, an aestival species, with a single generation in a year. Often very common. Flight activity only nocturnal.

62) *Dichagyris (s.str.) amoena* (Staudinger, 1892) **Fig. 11, Map 23**

Synonym(s): *amoena* Staudinger, 1892; *flavida* Corti & Draudt, 1933. Original Reference: Agrotis amoena Staudinger, 1892, Dt. ent. Z., Iris 4: 267-248. Syntypes 9♂: [Türkei]: Amasia. Range (in code): SY Dms Swd TR Cc IR Fa Gh Ma Elb Th 04 05 06 08 12 13 18 23 25 27 42 44 46 50 56 58 62 63 65 69 70 71 73 04D 04Da 04I 05A 06Y 06Yb 08H 08Hb 13C 13Cf 18F 23D 25D 25K 25R 25Rb 27B 44E 50G 50Gd 56F 56Fm 56Fj 58G 62G 63E 65A 65Am 65Am4 65D 65Df 65F 65Fa 65G 65Gj 70C 70Cb 73C 73Cd

Notes: Like the preceding, an aestival-autumnal species, with a single generation in a year. Rare and local. Flight activity only nocturnal.

63) *Dichagyris (s.str.) elbursica* (Draudt, 1937) **Map 24**

Synonym(s): *elbursica* Draudt, 1937 Original Reference: Rhyacia elbursica Draudt, 1937, [in] Seitz, A., Die Gross Schmett. Erde 3 (suppl.): 250. Syntypes: Iran: Elbursgebirge. Range (in code): IR Elb Fa Ss Kh Ke Lo Go Th Dam Km Kd TR Cc AF TJ Pm Chr UZ IL Pa He 30 36 65 30B 30Be 30Bf 30Bg 36F 65A 65Ab 65Aba 65Bx 65D 65Dd 65Df 65F 65Fa 65Fz 65G 65Ge 65K 65Ky

Notes: An aestival-autumnal species, with a single generation in a year. Uncommon. Confined to alpine zone. Flight activity only nocturnal.

64) *Dichagyris (s.str.) erubescens* (Staudinger, 1892)

Synonym(s): *erubescens* Staudinger, 1892 Original Reference: Agrotis renigera var. erubescens Staudinger, 1892, Dt. ent. Z., Iris 4 (2): 268. Syntypes: [Türkei]: Aintab [=Gaziantep], Mardin, Malatia. Range (in code): TR GR IR Kh AF Srb LB Bsa IL Pa SY Bld JO Sn EG IQ 01 06 07 24 25 27 30 33 42 44 46 47 50 51 56 58 63 65 06B 06R 06Ra 07K 27B 30B 30Bj1 33O 47D 50G 50Gb 56F 56Fb 56Ff 56Fc 56Fs 56Fç 56Fv 58N 65A 65Ai 65D 65Dh 65Fr 65Fp 65Fz 65N 65Np 65Np1 65Np2 65Nm Prep. no.: GP1101♂

Notes: An aestival species, common. Flight activity only nocturnal.

65) Dichagyris (s.str.) leucomelas Brandt,1941

Synonym(s): *leucomelas* Brandt,1941 Original Reference: *Dichagyris leucomelas* Brandt,1941, Mitt. münch. ent. Ges. 31: 843, fig.15. Syntypes: Iran: [Belutschistan]: Kouh i Taftan, 2000-2800m; Fort Sengan, 1800m; [Khorassan]: Kouh i Binaloud bei Meched. Range (in code): MA IR Fa Ss Kh Bk Lo Es Ke Ha Yz Th Elb Km Kd Snj Mrv TR RU Cc Ro AF Pli Gbh Srb KK Skm UZ TJ PK Bt Skd Gg Cls Psu IN Ld IL Pa Sn EG 13 25 30 58 65 13A 13Ab 13Ax 25F 25R 30B 30Bd 30Bx 30D 30Db 58G 65A 65Ac 65Ac3 65D 65Df 65F 65Fa 65Fz 65G 65Ge 65K 65Ky

Notes: An aestival species, uncommon. Flight activity only nocturnal.

66) Dichagyris (s.str.) singularis (Staudinger,1877) Map 25

Synonym(s): *singularis* Staudinger,1877 Original Reference: *Orbifrons singularis* Staudinger,1877, Stettin ent. Ztg. 38: 187. Type: [Turkmenistan]: Krasnowodsk. Range (in code): AE IL Pa JO TR IQ Rww Brs IR Hz Elb Th Lo Kh Nys Ke Zj TM Krn Kp AF 13 44 51 56 63 65 13C 13Cf 44F 44Fb 44L 51B 51Ba 56A 56F 56Fv 56Fc 56Fb 63B 65A 65Ai

Notes: An aestival species, rare. Flight activity only nocturnal. This is apparently new record to Van fauna!

67) Dichagyris (s.str.) terminicincta (Corti & Draudt,1933)

Synonym(s): *terminicincta* Corti & Draudt,1933; *maraschi* Corti & Draudt,1933. Original Reference: *Agrotis terminicincta* Corti & Draudt,1933, Dt. ent. Z., Iris 47: 70. Syntypes: Lebanon: Besharre, 1400m. Range (in code): TR IR Elb Fa Ha Kh Bk Zj Mz Ab Sdt Sqq Snj Mrv Kd Th Ss Se KuB AM Eri Cc RU Kyi IQ AF Pag LB Bsa IL Pa 02 04 12 13 25 30 36 44 46 51 58 65 69 04C 04D 04Da 25A 25C 25Ca 30B 30Bg 30Bh 30D 30Da 36F 36Fb 36D 44E 51B 51Ba 58G 58Gi 65A 65Ab 65Aba 65Bx 65F 65Fa 65Fm 65G 65Ge 73C 73Cd

Notes: An aestival species, uncommon. Flight activity only nocturnal.

68) Dicycla oo (Linnaeus,1758)

Synonym(s): *oo* Linnaeus,1758; *ferruginago* Hübner,[1803]. Original Reference: *Phalaena oo* Linnaeus,1758, Syst. Nat. (Edn.10): 1: 507. Type(s): [Europa]. Range (in code): PT ES FR Si IT GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR TR Cc AZ Len IQ IR Fa Es By Yas Kz Ab Sdt Bne Mrv Kd Mia Gls DK SE LV LT RU Ro Da MD UA BY IL Pa 01 05 06 07 08 11 17 18 21 22 28 30 33 38 39 42 46 56 65 06R 06Rb 21L 21N 21Nh 33G 33P 56F 56Fb 56Fv 56Fa 56Fs 56Fi 65A 65Ai

Notes: An aestival species, common in Quercus woodland. Flight activity only nocturnal.

69) Drasteria cailino (Lefèbvre,1827)

Synonym(s): *cailino* Lefèbvre,1827; *caylino* Lederer,1857 Original Reference: *Heliotis cailino* Lefèbvre,1827, Mém. Soc. linn. Paris 6: 94-96, pl.5 fig.1. Type(s): [Italia]: Sicilia. Range (in code): MA PT ES Mu FR Si IT RO YU AL BG GR TR IL Pa LB Bsa SY IQ Dia Ry Rww Brs RU Sr Ro Da AF Kab Nu Bsg Hr Bd Adr IR Bk Ke Ha Es Lo Fa Ss Kh Elb Th Dam Kz Skh Yas Sqq Kd Snj Km Hz AZ Kir Nv Ord Cc GG AM KG Ssn Lps At CN Ui Ga Au Pm Tk Dj KK Ik Skm PK SA YE Ab Sdt Kd Snj Bjr Zj Bne Mrv DZ BSA Ktr Orn Bsk Onç TN Gf 01 03 04 05 06 08 13 14 18 21 24 25 29 30 33 42 44 45 46 50 51 56 58 60 62 65 66 69 73 05A 06R 06Rb 13A 13Ab 13Ax 13G 13Gü 13Gw 21N 21Nb 21Nh 30D 30Dx 30Dp 42J 42X 42Xa 56F 56Fi 58N 65A 65Ac 65Ac3 65Ai 65An 65Am 65Am1 65D 65Df 65Dj 65F 65Fa 65Fp 65Fz 73D 73Df 73Dfc

Notes: An aestival species, common. Flight activity only nocturnal.

70) Drasteria saisani (Staudinger,1882) Fig.12

Synonym(s): *saisani* Staudinger,1882; *clara* Staudinger,1895; *#zaisani* John,1910. Original Reference: *Leucanitis saisani* Staudinger,1882, Stettin ent. Ztg. 43:53. Syntypes: [Kasachstan]: Saisan. Range (in code): RU Da KG Tar Ssn Tk Dk TR IR Kh KuB Elb Th Diz Dam Plr KK Ik T-A Feg Skm CN Ui Ii AF Nu Bsg AZ Kir Nv Ord Cc TM Kp UZ N-A 01 04 06 08 12 13 21 25 30 33 36 42 44 47 49 50 51 56 58 65 66 06B 06Bb 06C 06Cb 06R 06Re 08H 13A 21L 21Lc 30B 30Bd 30Bx 30Bg 30D 30Da 33R 36D 36Db 36F 49E 49Ea 56F 58G 65A 65Am 65Am1 65Am4 65C 65D 65Df 65F 65Fp 65Fz 65K 65Kb 65Kl

Notes: An aestival species, common. Flight activity only nocturnal. Usually sympatric with the previous species.

71) Dysgonia algira (Linnaeus,1767)

Synonym(s): *algira* Linnaeus,1767; *achatina* Sulzer,1776; *alterna* Villers,1789; *triangularis* Hübner,[1803] *nec* Thunb.,1784; *albiwitta* Guenée,1852; *festina* Walker,1858; *olympia* Swinhoe,1885; *europaea* Schawerda,1912 Original Reference: *Phalaena algira* Linnaeus,1767, Syst. Nat. (Edn.12) 1: 836. Type(s): Algeria. Range (in code): Cn MA DZ PT ES Mu FR Co Sa Si IT MT GB DE CH AT PL SK HU RO YU AL GR Cr Rd TR Cc CY IQ Akr Bsr Amr DK RU Am MD UA BY KK TM AF IR Fa LB Bsa IL Pa SY JO UZ Fe CN KP KR JP ZA Tva Lpo Spb Mdk Mpu Brb Gau Pre Nta Kzu Dbn Ec Grh SL NG ZR KE YE Ad MU IN CN PK LK Kndy Pdy MM Ab Elb Mz Th AZ Nv Ord Der Len AM GG Cc Ro Kr St Ich Da CV Cp Sdt Gls Agi Hmk Hrh DhM TN Dzc Ges Afr Perr Afl Orn Ktr Bsk Sbd Abe Clo 01 05 07 08 10 13 16 17 18 21 22 28 30 31 33 34 35 39 40 42 44 45 48 50 52 56 61 62 63 65 73 05A 07B 16A 21N 21Nb 30D 30Dt 31K 31Ka

31Ka3 33A 33Ac 39K 44I 44Ic 48D 50G 50Gd 56F 56Fv 56Fç 56Fa 56Fm 56Fc 61K 61Ka 63D 65A 65Am 65Am1 65D 65Ds 65Du 65Dv 73D 73Df 73Dfc

Notes: An aestival species, common. Flight activity only nocturnal.

72) *Egira anatolica* (M.Hering,1933)

Synonym(s): *anatolica* M.Hering,1933; *#metaxys* Boursin,1966; *#leucomelas* Boursin,1966; *bulgarica* Beshkov,2000 Original Reference: *Xylomiges conspicillaris* ssp. *anatolica* M.Hering,1933, Int. ent. Z. 26(37/38): 412. Syntypes 3♂ 4♀: [Türkei]: Ankara. Range (in code): IT GR TR Cc AZ Nv UZ KK Tls TM Kp TJ IR Elb Th Kdj RU Ro Kr Da UA BG LB CY 01 02 04 06 13 21? 23 27 30 31 24 44 46 50 56 63 65 67 73 01A 02E 13G 21N 21Nh 23M 30B 30Bj 46G 56F 56F1 56Fa 56F3 56Fv 63B 63E 65A 65Ai 65Am 65Am4 65E 65Eb 65F 65Fm 65Fp 65Fz 65Fu 65L 65Lb 73A 73Ab Prep. no: GP1044♂ GP2348♂ GP2348♂ GP2348♂

Notes: A vernal species, common. Flight activity only nocturnal.

73) *Enargia pinkeri* De Freina & Hacker,1985 Map 26

Synonym(s): *pinkeri* De Freina & Hacker,1985 Original Reference: *Enargia pinkeri* De Freina & Hacker,1985, Entomofauna 6 (19): 256-258, Abb. 21-23. Holotype ♂: [Türkei]: Kleinasien: Ankara: Kizilcahamam, 10km S Güvem, 1000m, 5-6.7.81 (leg. De Freina, coll. Hacker). Range (in code): TR 01 06 07 18 33 38 42 65 06R 06Rb 06Re 33G 38C 38Ca 65A 65Ab 65Aba

Notes: An aestival species, common. Flight activity only nocturnal. This is apparently new record to Van fauna!

74) *Epilecta linogrisea* ([Denis & Schiffermüller],1775) Map 27

Synonym(s): *linogrisea* [Denis & Schiffermüller],1775; *lutosa* Staudinger,1901. Original Reference: *Noctua linogrisea* [Denis & Schiffermüller],1775, Ankündigung syst. Werkes Schmett. Wienergegend: 79. Type(s): [Austria]: Vienna district. Range (in code): DZ Khh PT ES An FR Co Sa Si IT BE LU DE CH AT PL CZ SK HU RO YU AL BG GR Cr CY TR Cc GG Smt Bjo RU Kr Ich DK NO SE EE LB IL Pa He IR TM 01 03 05 06 08 16 17 31 33 42 46 50 56 62 65 05A 06R 06Ra 08H 16A 31K 31Ka 31Ka3 42D 56F 56Fo 56F6 56Fs 56Fc 56Fj 65A 65Ai 65Am 65Am4 65Ac 65Ac3 65F 65Fm Prep. no: GP872♂

Notes: An aestival species, common. Flight activity only nocturnal.

75) *Episema korsakovi* (Christoph,1885) Map 28

Synonym(s): *korsakovi* Christoph,1885; *paenulata* Christoph,1885. Original Reference: *Agrotis korsakovi* Christoph,1885, [in] Romanoff, Mem. Lep. 2: 44, fig. Syntypes: [Aserbaidjan]: Helenendorf [=Kirovabad]. Range (in code): RO YU BG GR Cr TR CY Cc AZ Kir AM GG Smt Bjo RU Kr SY CY IL Js Pa IR Gh Elb Fa 01 06 08 10 14 17 21 23 36 42 44 45 46 50 51 56 58 65 06C 06Cb 06E 06Ea 06R 06Rq 06Y 06Yb 21F 23I 36F 36Fb 44E 44F 44Fb 50G 51B 51Bc 56F 56Fb 56Fv 56Fm 56Fc 56Fj 58G 65A 65Am 65Am4 65D 65Df 65F 65Fp 65Fz 65K 65Kd 65Kg 65N 65Np 65Np8 65Nm Prep. no: GP574♂

Notes: An autumnal species, with a single generation, common. Flight activity only nocturnal.

76) *Episema tersa* ([Denis & Schiffermüller],1775) Fig. 13, Map 29

Synonym(s): *tersa* [Denis & Schiffermüller],1775; *trimacula* [Denis & Schiffermüller],1775; *swiderskii* Kostrowicki,1956. Original Reference: *Noctua tersa* [Denis & Schiffermüller], 1775, Ankündigung syst. Werkes Schmett. Wienergegend: 312. Type(s): [Austria]: Vienna district. Range (in code): DZ Ges Btina Sét Perr Afl Abe Sa? IT AT PL CZ SK HU RO YU BG GR TR IL Pa Js CY UA RU Cc Kr KG KK Ik T-S IR? 06 07 13 14 18 21 25 42 46 49 50 51 56 58 62 65 06C 06Cb 06E 06Ea 07A 07Ad 13C 13Cf 21L 25F 49F 49Fe 56A 56F 56F1 56Fm 56Fv 56Fj 62G 65A 65Am 65Am4 65F 65Fa

Notes: An autumnal species, with a single generation, common. Flight activity only nocturnal. Usually sympatric with the previous species. Colour of the forewing variable.

77) *Eremobia asiatica* Draudt,1936

Synonym(s): *asiatica* Draudt,1936 Original Reference: *Eremobia ochroleuca* ssp. *asiatica* Draudt,1936, Ent. Rdsch. 53: 492. Holotype ♀: [Türkei]: Ak-sehir (Sultan Dag). Range (in code): BG GR TR Cc IR Fa Elb Th Plr Es Zj Kd Snj Bne 03 05 06 17 25 30 32 36 42 51 58 65 30B 30Bd 30Bc1 30Bx 65A 65Ab 65Aba 65Ac 65Ac3 65D 65Df 65Dl 65Dlc 65F 65Fm 65Fp 65Fz

Notes: An aestival species, with a single generation, common. Flight activity only nocturnal.

78) *Eublemma (Glossodice) polygrammum* (Duponchel,[1842]) Fig. 15

Synonym(s): *polygramma* Duponchel,[1842]; *argillacea* Eversmann,1844; *nuda* Christoph,1862; *violetta* Staudinger,1889. Original Reference: *Anthophila polygramma* Duponchel,[1842], Hist. nat. Léop. Pap. Fr. 3: 519. Syntypes: France: Digne, Lyon; Schweiz: Wallis. Range (in code): DZ Lbs PT ES Mu FR IT CH AT PL RO YU AL BG GR Cr TR CY AZ Kir Hkd Nv Ord Cc IR Fa Bk By Mz Es Elb Th Kd Sqq Bne Bjr Ab Mak Kz Yas Mia

Shr Ss Hz B-A IQ RU Ro St Nt Ing Da MD UA BY LB Bsa Bei IL Pa Hf JO 01 03 04 05 06 07 14 18 23 24 25 30 33 35 42 44 46 50 51 56 58 60 65 66 70 75 76 05A 13A 13Ab 13Ax 13G 13Gy 44L 44Lc 56F 56Fa 56Fv 56Fm 56F1 56Fs 56Fa 56Fö 58G 58N 65A 65Ac 65Ac3 65Ai 65D 65Df 65F 65Fe 65Fr 65Fp 65Fz 65K 65Kl 65Kd 65Kg 65N 65Np2 65Np6 65Nm 70C 70Cf 76C

Notes: An aestival species, with a single generation, common. Flight activity only nocturnal.

79) **Eublemma (candidana-gr.) minutatum (Fabricius,1794)**

Synonym(s): *minutata* Fabricius,1794; *noctualis* Hübner,1796; *paula* Hübner,[1809]. Original Reference: Phalaena minutata Fabricius,1794, Ent. Syst. 3 (2): 205. Type(s): Halae [Halle]. Range (in code): ES FR Co IT BE DE CH AT PL CZ SK RO YU AL BG GR AM TR Cc GG Lag AZ Nv Ord DK NO SE FI EE LV LT RU Ro Ich MD UA BY LB Bsa 08 13 18 24 25 36 42 44 46 50 56 60 65 76 13A 13Ab 13Ax 36D 36Db 44L 44Lc 56F 56Fc 56Fs 56Fq 65A 65Am 65Am1 65D 65Df 65Dh 65Fz 65N 65Nb 65Np1 65Nm 76B 76Bb 76C

Notes: An aestival species, with a single generation, common. Flight activity only nocturnal.

80) **Eublemma (candidana-gr.) pulchralis (De Villers,1789)**

Synonym(s): *pulchralis* De Villers,1789; *candidana* Fabricius,1794; *minuta* Hübner,[1809]; *perlana* Geyer,[1830]; *skafiota* Freyer,1845; *impura* Staudinger,1871 Original Reference: *Pyralis pulchralis* De Villers,1789, Linn. Ent. 2: 452. Range (in code): DZ PT ES Mu Sa Si FR IT YU GR Cr TR IR Fa IQ CY AM GG Smt Akh Cc TM 33 35 44 46 58 65 33A 33Ac 44L 44Lc 58N 65A 65Ai

Notes: An aestival species, with a single generation, common. Flight activity only nocturnal. This is apparently new record to Van fauna!

81) **Eublemma (ostrina-gr.) ostrinum (Hübner,[1808])** **Fig. 14, Map 30**

Synonym(s): *ostrina* Hübner,[1808]; *carthami* Herrich-Schäffer,[1851]; *aestivalis* Guenée,1852; *numida* Lucas,1849; *thasia* Koutsaftikis,1973. Original Reference: *Noctua ostrina* Hübner,[1808], Samml. eur. Schmett. 4, Noctuae: Tab.85, fig.399. Type(s): Europa. Range (in code): Cn PT ES Mu FR Co Sa Si IT MT IE GB NL DE CH AT HU RO YU AL BG GR Cr Rd CY TR AZ Kir Cc RU Ro St Nt Ich Ing Da MD UA SY JO IL Hf Pa LB Bsa IQ Brs Ry Rws Dia Agh Bgd IR Fa Hz Ss Ke Mz Elb Kd Km Snj Lo Mia Kz Yas Kaz Shr Hz B-A AF Bsg Nu IN PK MN KG Tk Dj Gg Sdt Gls Hrh Ges Dzc DhM Ktr Afr Bdj BSA BtNa Abe Sbd KhH Hmk Ahr Gha Bsk Gf Orn Tlm Rbt Phv Hes Lbs Clo DZ MA Tgr 01 05 07 08 09 10 13 16 21 31 33 35 44 46 48 50 51 56 58 60 62 63 64 65 66 05A 07C 13B 13Bg 13G 13Gy 13Gü 13Gw 16A 21N 21Nh 31K 31Ka 31Ka3 31Ka5 44I 44Lc 44L 44Lc 48L 56E 56Eh 56F 56Fc 56Fb 56Fv 56Fj 56Fm 56Fö 58N 63E 65A 65Am 65Am1 65Am2 65Am4 65D 65Dh 65K 65N 65Nc 65Nc4 65Np2 65Np6 65Nm

Notes: An aestival species, with a single generation, common. Flight activity only nocturnal.

82) **Eublemma (parva-gr.) parvum (Hübner,[1808])**

Synonym(s): *parva* Hübner,[1808]; *rubefacta* Mabille,1869; *chalybea* Swinhoe,1884; *nymphodora* Meyrick,1902. Original Reference: *Noctua parva* Hübner,[1808], Samml. eur. Schmett., Noctuae: Taf.77 fig. 356. Type(s): [Europa]. Range (in code): MA DZ TN LY EG SD PT ES Mu FR Co Sa Si IT MT IE GB BE NL DE CH AT CZ SK HU PL YU AL BG GR Cr CY TR DK RU MD UA IL Hf SY IQ Brs Ry Rws Dia Agh Amr LB Bsa JO SA IR Ab Mrd Elb Th Kdj Kd Ssq Mak Fa Ss Kh Bk Ha AF Hr Srb Bbh Kab Ca Dwe Arh PK IN TH ID ZA YE Ad AU Snj Mia Km Kz Yas Hz B-A Cc St Da Len AZ Nv Ord Bne Mrv Hrh Ges Perr Sfr Sbd Abe BtNa Clo Tgr Hes 01 05 07 08 13 16 25 31 33 46 47 48 50 56 58 63 65 80 05A 07C 13A 13Ab 13Ax 16A 31K 31Ka 48L 56E 56Eh 56F 56Fm 56Fö 58N 63E 63L 65A 65Am 65Am1 65D 65Df 65Dg 65F 65Fp 65Fz 65N 65Nc 65Nc4

Notes: An aestival species, with a single generation, common. Flight activity only nocturnal.

83) **Euchalcia dorsiflava (Standfuss,1892)** **Map 31**

Synonym(s): *dorsiflava* Standfuss,1892 Original Reference: *Plusia emichi* var. *dorsiflava* Standfuss,1892, [in] Romanoff, Mém. l'ép. 6: 666-667, Pl.xv fig.6. Type(s): [Türkei]: Mardin (P.Sintenis). Range (in code): TR 13 21 30 31 38 47 49 56 58 65 73 13G 13Gg 13Gü 13Gw 21L 21Lc 30B 30Be 30Bj 30Bl 30D 30Da 47D 47F 4Fa 56F 56F5 56Fc 58G 65A 65Ai 65D 65Dh 65F 65Fa 65Fe 65Fm 65Fg 65Fr 73D 73Df 73Dfc

Notes: An aestival species, with a single generation, rare. Flight activity only nocturnal.

84) **Euchalcia hedeia Dufay,1978** **Map 32**

Synonym(s): *hedeia* Dufay,1978; *#hedeja* Hacker,1990; *aureolineata* L.Ronkay & Gyulai,1997 Original Reference: *Euchalcia hedeia* Dufay,1978, Bull. mens. Soc. linn. Lyon 47 (2): 71-72, fig.1. Holotype ♂: [Turquie]: Anatolie orientale, Van Gölü env. 1800m, 1/31.vii.1965, H.Noack leg (LNK). Range (in code): TR SY IR Ab Sdt 30 65 73 30B 30Bl 30Be 65A 65Ab 65Aba 65Bx 65F 65Fa 65G 65Ge 73C 73Cd

Notes: An aestival species, with a single generation, rare. Flight activity only nocturnal.

85) **Euchalcia kitchingi Hacker & Ronkay,1992** **Map 33**

Synonym(s): *kitchingi* Hacker & Ronkay,1992 Original Reference: *Euchalcia* (*Pseudochalcia*) *kitchingi* Hacker & Ronkay,1992, Esperiana 3: 459-461, figs. Holotype ♂: Türkiye: Hakkari, Tanin Tanin Dağları, Elkek geçidi W-Seite 2300m, 6km ENE Uludere, 26.vi.1984, leg. Weigert (coll.

Weigert). Range (in code): TR 04 13 30 31 65 73 13G 13Ge 13Gc 31L 65A 65Am 65Am4 65F 65Fa 65Fç 65Fz 73C 73Cd

Notes: An aestival species, with a single generation, rare. Flight activity only nocturnal.

86) *Euchalcia siderifera* (Eversmann, 1846)

Synonym(s): *siderifera* Eversmann, 1846 Range (in code): IT? GR TR RU Ur TM IR Elb Mz Cc AM KG 04 13 25 29 30 46 56 65 73 04D 04Da 13A 30B 30Be 30Bj 56F 56Fc 65A 65Ac 65Ac3 65Bx 65G 65Ge 65F 65Fp 65Fz 73C 73Cd

Notes: An aestival species, with a single generation, rare. Flight activity only nocturnal.

87) *Euclidia glyphica* (Linnaeus, 1758)

Synonym(s): *glyphica* Linnaeus, 1758; *pratensis* Müller, 1764 Original Reference: Phalaena glyphica Linnaeus, 1758, Syst. Nat. (Edn.10) 1: 510. Type(s): [Europa]. Range (in code): PT ES FR Co Si IT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL MK BG GR TR AZ Len AM GG Lag Smt Bjo Cc IR GlS DK NO SE FI EE LV LT RU Ro Kr St Nt Ich Ing Da MD UA BY CN Ui Ku 01 05 06 11 12 13 14 16 19 25 30 37 38 39 44 49 54 58 61 65 67 75 76 05A 06A 06Aa 12A 12Ab 13Gö 13Gg 16A 25A 30C 38H 38Hc 44A 44Ab 49F 49Fb 65A 65Ai 65Aö 65An 65Ap 65As 65Au 65D 65Dj 65Dn 75F 75Fg 75Fj 76B 76Bf 76Bh

Notes: An aestival species, with a single generation, local and common. Flight activity only nocturnal.

88) *Eugnorisma (Metagnorisma) pontica* (Staudinger, 1892)

Synonym(s): *pontica* Staudinger, 1892 Original Reference: Agrotis depuncta var. pontica Staudinger, 1892, Dt. ent. Z., Iris 4: 267-268. Syntypes: [Türkei]: Amasia. Range (in code): RO MK BG GR TR TM Kp IR Ak Fa Km Kz By Kd Ksh Elb Th Kh KuB GlS Cc AM LB IL Pa He IQ R wz Ry 05 06 08 12 13 14 18 23 25 30 33 42 49 50 51 56 62 65 66 05A 06E 06Ea 06R 06Rq 13G 13Gü 13Gw 14I 23I 25F 42B 42D 49E 49Ea 50G 50Ga 51B 51Ba 56F 56Fs 56Fb 56Fq 65A 65Ai 65F 65Fm 65Fj 65F2 65Fp 65Fz 65L 65Lb 65N 65Np 65Nm Prep. no.: GP876♂ GP881♂ GP882♂ GP2204♂

Notes: An autumnal species, with a single generation, common. Flight activity only nocturnal.

89) *Eugnorisma (s.str.) insignata* (Lederer, 1853) **Map 34**

Synonym(s): *insignata* Lederer, 1853; *intermedia* Eversmann, 1855. Range (in code): RU Da At KG KK TJ Pm Chr UZ N-A TR Cc TM Kp IQ Brs Shq R wz Ry IR Elb Th Dam Lo Kh KuB Fa Spd Sse Kz PK Gg Bbu Psu Nar 01 03 06 25 30 36 42 46 56 58 65 70 01D 01L 01La 03H 06D 06Da 06Y 06Yb 25F 25T 30D 30Dt 42B 42D 50G 50Ga 50Gd 56F 56Fj 56Fi 56Fs 65A 65Ai 65Am 65Am4 65D 65Df 65F 65Fa 65Fm 65Fj 65Fi 65Fp 65Fz 70C 70Cb

Notes: An autumnal species, with a single generation, common. Flight activity only nocturnal.

90) *Eugnorisma (s.str.) kurdistan* Hacker, Kuhna & Gross, [1987] **Fig. 16**

Synonym(s): *#kurdistanica* Hacker & Weigert, 1986; *kurdistan* Hacker, Kuhna & Gross, [1987] Original Reference: *Eugnorisma kurdistan* Hacker, Kuhna & Gross, [1987], Mitt. münch. ent. Ges. 76: 89-90, Taf.2, figs. 9-10; Taf.6 figs.43-45. Holotype ♂: [Türkei]: Prov. Bingöl, Buğlan Geçidi, 1650-1800m (leg. Kuhna, coll. Hacker). Range (in code): TR IR Elb Kz Fa Th Dam Km 12 13 30 49 56 65 12E 12Eb 13C 13Cf 13D 13Da 30B 30Bj 49Ea 56A 65A 65Am 65Am4

Notes: An autumnal species, with a single generation, common. Flight activity only nocturnal. This is apparently new record to Van fauna!

91) *Euxoa (Pleonectopoda) rjabovi* Kozhantshikov, 1929

Synonym(s): *rjabovi* Kozhantshikov, 1929; *inclusa* Corti, 1931 Original Reference: *Euxoa rjabovi* Kozhantshikov, 1929, Bull. Mus. Georg. Tiflis 5: 87-88, fig. Syntypes 3 ex: Russia: Daghestan, Kurusch-Gebirge, M.Rjabov leg. Range (in code): TR Cc IR Th Elb Dam Mz Kdv Se Fa Ha RU Da Kus 04 08 13 25 38 51 60 65 68 76 04D 04Da 08A 08H 08Hb 13G 13Gü 13Gw 25A 25C 25Ca 38G 38Ga 51B 51Ba 60C 65A 65Ab 65Aba 65Bx 65G 65Ge 68B 68Bb

Notes: An autumnal species, with a single generation, common. Flight activity only nocturnal.

92) *Euxoa (s.str.) conspicua* (Hübner, [1824])

Synonym(s): *conspicua* Hübner, [1824]; *agricola* Boisduval, 1829; *lycarum* Herrich-Schäffer, 1846; *abdit* De Joannis, 1891; *#indistincta* Strand, 1915; *osthelderi* Corti, 1931; *complicata* Corti, 1931. Original Reference: [Noctua] *conspicua* Hübner, [1824], Samml eur. Schmett. 4: pl. 154 figs. 718, 719. Type: Europe [date of publ. from Heppner (1982: 100)]. Range (in code): PT ES FR Co IT RO YU BG GR TR Arr GG Akh Smt Bjo Tbl Lag Cc AZ Kir Hkd RU Ro Kr St Kc Kb Nt Ich Ing Da Kyi MD UA BY MN KG Tks Ssn Na Tk Dj KK TrA UZ IR Ab Ak Mz Th Kd Ha Fa Ss Kh Ke Ha Mz Enz CN Ui Ku Ii Kml AF Blh Arh Srb IQ Tkr LB Bsa PK IN Hp Sb SY CY Nv Ord Da Der Kus Oru Khy Mar GlS Bbu Sai Nar 01 03 04 05 06 13 18 23 24 25 30 33 36 38 42 44 45 46 50 51 58 60 62 65 66 70 71 75 76 01K 03E 04C 05A 06R 06Rb 06Rk 06Y 06Yb 13A 13Ab 13Ae 13Ax 13G 13Gü 13Gw 18F 25A 25C 25Ca 25R 30D 30Dc 36F 38C 38Cb 38G 38Ga 42R 42Rc 44I 45P 50G 50Ga 50Gb 50Gc 51B 51Ba 58G 58N 58R 60C 62G 65A 65Ab

65Aba 65D 65Df 65Dh 65Ds 65Du 65F 65Fa 65Fg 65Fm 65Fp 65Fz 65G 65Ge 65K 65Kl 65L 65Lb 65N 65Np2 65Nm 66P 75E 76C Prep. no: GP480♂

Notes: A vernal-aestival species, common. Flight activity only nocturnal.

93) Euxoa (s.str.) scurrilis Draudt,1937 Map 35

Synonym(s): *scurrilis* Draudt,1937 Original Reference: Euxoa scurrilis Draudt,1937, in Seitz, Die Gross-Schmett. Erde 3(suppl.):268. Syntypes: [Iran]: Elbursgebirge... Range (in code): TR Cc IR Elb Th Dam Lo Fa Com IQ 01 12 13 24 25 30 36 42 50 51 58 65 01L 01La 12C 12Cb 13G 13Gü 13Gw 25C 25Ca 25R 25T 30B 30Bg 30D 30Da 36D 51B 51Ba 51Bc 58G 58Gi 65A 65Ac 65Ac3 65Ab 65Aba 65B 65Bo 65Bx 65D 65Df 65F 65Fp 65Fz 65G 65Gb 65K 65Kb Prep. no: GP602♂

Notes: An autumnal species, with a single generation, common. Flight activity only nocturnal.

94) Euxoa (s.str.) sulcifera (Christoph,1893) Map 36

Synonym(s): *sulfifera* Christoph,1893 Original Reference: Agrotis sulcifera Christoph,1893, Dt. ent. Z., Iris 6: 91. Type(s): [Türkei]: Kasikoparan. Range (in code): TR IR Elb Th Cc AM 04 08 12 13 25 30 42 62 65 69 76 04D 04Da 04I 04Ia 08H 08Hb 12A 12Aa 13G 13Gü 13Gw 25A 25C 25Ca 25F 25T 30D 30Da 42B 62G 65A 65Ab 65Aba 65Bx 65D 65Df 65F 65Fj 65Fp 65Fz 65G 65Ge 65Gü 69B 69Ba 76C

Notes: An autumnal species, with a single generation, common. Flight activity only nocturnal.

95) Gortyna (Cervyna) cervago Eversmann,1844 Fig. 17, Map 37

Synonym(s): *cervago* Eversmann,1844; #argillago Draudt,1936. Original Reference: Gortyna cervago Eversmann,1844, Bull. Soc. imp. Nat. Moscou 3: 594. Range (in code): RO RU Ro St Ich Da Ur UA TR Cc AM AZ TM CN Ui AF IR Elb Th Kdv UZ 04 06 13 25 36 44 58 62 65 69 04D 04Da 06E 06Ea 13A 13Ab 13Ax 36F 36Fb 65A 65Ai 65Am 65Am4 65D 65Df 65F 65Fa 65G 65Ge 65K 65Kk

Notes: An autumnal species, with a single generation, uncommon. Flight activity only nocturnal.

96) Gortyna (s.str.) osmana Hacker & Kuhna,1986 Map 38

Synonym(s): *osmana* Hacker & Kuhna,1986 Original Reference: Gortyna osmana Hacker & Kuhna,1986, Nota lepid. 9 (3/4): 184-187, Taf.1 figs.5,6,8. Holotype ♂: Türkiye: Tunceli: 15km n. Pülümür, 1800m, 20.ix.1981 (leg. Kuhna, coll. Hacker). Range (in code): TR Cc IR Hz Ma Ara 04 13 25 36 56 62 65 75 04D 04Da 04I 13C 13Cf 36F 56F 62G 65A 65Ai 65Bx 65F 65Fp 65Fz 65G 65Ge 75D

Notes: An autumnal species, with a single generation, rare. Flight activity only nocturnal.

97) Haden (Anepia) wolffi Hacker,1992

Synonym(s): *wolffi* Hacker,1992 Original Reference: Haden (Anepia) wolffi Hacker,1992, Esperiana 3: 289-290, figs. Holotype ♂: Türkiye: Hakkari Prov., Altın Dağları, Suvarihalil Geçidi, 2400m 27.vi.1984 (leg. Wolf, coll. Hacker). Range (in code): TR 30 65 73 30B 30Be 30Bj1 65A 65Am 65Am4 65F 65Fa 65Fp 65Fz 73C 73Cd Prep. no: GP2028♂ GP2031♂

Notes: An aestival species, with a single generation. Flight activity only nocturnal.

98) Haden (Enterpia) roseocandida (Hacker,1996)

Synonym(s): *roseocandida* Hacker,1996 Original Reference: Enterpia roseocandida Hacker,1996, Esperiana 5: 596-597, figs. Holotype ♂: Türkiye, Hakkari, 1400m Zap-Tal 23-26 vi 1990, leg. Kautt (coll. Hacker). Range (in code): TR Cc IR Elb Th Fa Lo Ha Mia 01 04 06 12 13 22 23 25 30 36 42 46 50 56 58 65 70 13A 13Ab 13Ax 30B 30Bc1 30Bx 36D 36Db 50G 56F 56Fm 58G 65A 65Ai 65D 65Df 65F 65Fp 65Fz 70C 70Ce 70Cf

Notes: An aestival species, with a single generation, common. Flight activity only nocturnal.

99) Haden (Pinkericola) tephroleuca (Boisduval,1833)

Synonym(s): *tephroleuca* Boisduval,1833 Original Reference: Polia tephroleuca Boisduval,1833, Annls Soc. ent. Fr. 1833: 374, Pl.14,fig.4. Syntypes: Chamouny, Lausanne. Range (in code): ES FR Co IT DE CH AT AL BG GR TR Cc AZ AM GG RU Ro Kb Nt Kc Ing Da UA IR Elb Mz Th Diz Plr Dam Kd 04 06 13 14 18 20 24 25 28 30 32 33 36 38 42 46 48 49 50 51 58 60 65 66 13D 14B 14Bb 58N 65A 65Am 65Am3 65Bx 65D 65Dg 65F 65Fa 65G 65Ge Prep. no: GP830♂

Notes: An aestival species, with a single generation, uncommon. Flight activity only nocturnal.

100) Haden (s.str.) compta ([Denis & Schiffermüller],1775)

Synonym(s): *compta* [Denis & Schiffermüller],1775; *viscariae* Guenée,1852; *galactina* Turati,1908. Original Reference: Noctua compta [Denis & Schiffermüller],1775, Ankündigung syst. Werkes Schmett. Wienergegend: 70. Type(s): [Austria]: Vienna district. Range (in code): DZ Ges PT ES FR Co Sa Si IT GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR TR SY LB Bsa IL Pa AM GG Smt Akh Cc AZ IR Ab Khy Elb Fa Th

Lo Zj Gh Kd Bne Sse Kh IQ DK NO SE FI EE LV LT RU Ro St Kb Kc Nt Ich Ing Da Sb At Am MD UA BY TM KK KG T-S
MN CN JP 03 04 05 06 08 13 16 18 24 25 29 30 32 33 36 42 46 49 50 51 56 58 60 62 63 65 66 76 05A 13A 13Ab 13Ax 13G
13Gü 13Gw 16A 33G 33P 51B 51Ba 56F 56Fa 56Fq 58N 65A 65Ai 65Bx 65D 65Df 65F 65Fa 65Fp 65Fz 65Fr 65G 65Ge
76C Prep. no: GP836[♂]

Notes: An aestival species, with a single generation, uncommon. Flight activity only nocturnal.

101) *Hadena (s.str.) confusa* (Hufnagel,1766)

Synonym(s): *confusa* Hufnagel,1766; *conspersa* [Denis & Schiffermüller],1775; *nana* Rottemburg,1776 *nec* Hufnagel,1766; *annulata* Fabricius,1781; *x-scriptum* Sowerby,1806; *fasciata* Tutt,1902; *suffusa* Tutt,1902; *intermedia* Tutt,1902. Original Reference: *Phalaena confusa* Hufnagel,1766, Berl. Mag. 3(3): 414. Type(s): [Germany]: Berlin. Range (in code): MA DZ Agi Hmk Hrh Dzc Ges Abe TN PT ES FR Co Sa Si IT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR TR DK NO SE FI EE LV LT RU Kr St Kb Nt Ich Ing Da Sb At Prj Us MD UA BY Cc GG Lag AM AZ IR Mz KK Ik TrA Ax Na KG Tk Aa CN Ui Ju Ti MN Uli U-B 04 06 07 08 09 13 18 25 28 30 33 36 37 46 49 50 51 60 65 75 13C 13Cf 33G 51D 51Da 65A 65An 65Bx 65G 65Ge

Notes: An aestival species, with a single generation, uncommon. Flight activity only nocturnal.

102) *Hadena (s.str.) fibigeri* Hacker,1996

Synonym(s): *fibigeri* Hacker,1996 Original Reference: *Hadena fibigeri* Hacker,1996, Esperiana 5: 462 Taf.R figs. 1-3. Holotype ♂: Türkei, Kayseri Prov. Erciyas Dağı 2000m coll.Fibiger. Range (in code): TR Cc 04 08 13 24 25 30 38 50 51 58 65 69 04D 04Da 08H 13G 25A 25C 25F 30B 30Be 30Bj 30Bl 30D 38G 38Ga 50G 50Gb 58G 58I 65A 65At 65At5 65Bx 65D 65Df 65G 65Ge 65Fz

103) *Hadena (s.str.) magnolii* (Boisduval,1828)

Synonym(s): *magnolii* Boisduval,1828; *nummosa* Eversmann,1844. Original Reference: *Polia magnolii* Boisduval,1828, Eur. Lépid. Ind. Meth.: 73. Type(s): Gallia meridionalis. Range (in code): DZ Hmk PT ES An FR Co Si IT DE CH AT SK HU RO YU HV AL MK BG GR Cr TR TM IR By Yas Es Fa Lo Ha Elb Th Dam Kd Kh Cc GG Tbl Smt Bjo Mng AZ Kir AM LB Bsa UZ N-A KK KG RU Ro St Kb Nt Ing Da Sb At UA PK Ch Hu 01 04 05 06 09 13 14 18 21 24 25 29 32 33 36 42 44 46 49 50 51 56 58 65 66 05A 06R 06Rb 13A 13Ab 13Ax 13G 13Gü 13Gs 13Gw 21L 21Lc 42R 44L 44Lc 56F 56F1 56Fs 58R 65A 65Ai 65Am 65Am1 65Am4 65An 65At 65At5 65D 65Df 65Dg 65Du 65F 65Fp 65Fz 65Fm 65K 65N 65Np 65Np1 65Nm Prep. no: GP837[♂]

Notes: An aestival species, with a single generation, very common. Flight activity only nocturnal.

104) *Hadena (s.str.) pfeifferi* (Draudt,1934)

Synonym(s): *pfeifferi* Draudt,1934 Original Reference: *Dianthoecia pfeifferi* Draudt,1934, Ent. Rdsch. 51: 93. Type: Libanon: Bscharre. Range (in code): TR LB Bsa IQ IR Kd Snj SY Dms 25 29 30 65 73 25F 25N 25Na 29A 29Ab 30B 30Bh 65A 65Ai 65Am 65Am1 65Am4 65D 65F 65Fp 65Fz 73A 73Ab

Notes: An aestival species, with a single generation, uncommon. Flight activity only nocturnal.

105) *Hadena (s.str.) vanensis* Hacker,1996

Synonym(s): *vanensis* Hacker,1996 Original Reference: *Hadena (s.str.) vanensis* Hacker,1996, Esperiana 5: 398-399, Taf.N fig.18. Holotype ♀: Türkei: Prov. Van: [Çatak]: Kayaboğaz [=Görentaş], 2.vi.1989 (leg. Podlussany) (HNHM). Range (in code): TR 65 65A 65At 65At5 65Bx 65D 65Dd 65Dg 65F 65Fp 65Fz 65G 65Ge

Notes: An aestival species, with a single generation, uncommon. Flight activity only nocturnal.

106) *Hadula (Calocestra) mendax* (Staudinger,1879)

Synonym(s): *mendax* Staudinger,1879 Original Reference: *Hadena mendax* Staudinger,1879, Horae Soc. ent. ross. 14: 383. Syntypes: [Türkei]: Amasia; Lectotype ♂, designated by Hacker (1998: 703) (MNHU). Range (in code): MK BG GR TR Cc AM AZ Nv IL Pa LB IR Ab Oru 01 05 06 07 13 16 18 20 24 25 27 29 30 31 33 36 37 38 42 46 49 50 51 56 58 60 65 66 70 05A 06R 06Ra 16A 25F 31K 31Ka 33G 50G 50Gb 56F 56Fs 58N 58R 65A 65Ac 65Ac3 65Bx 65D 65Dg 65F 65G 65Ge 65N 65Np 65Np1 65Np2 65Nm

Notes: An aestival species, with a single generation, locally common. Flight activity only nocturnal.

107) *Hadula (Calocestra) mendica* (Staudinger,[1895])

Synonym(s): *mendica* Staudinger,[1895]. Original Reference: *Mamestra mendica* Staudinger,[1895], Dt. ent. Z., Iris 7: 272-273, Taf. ix fig.18. Syntypes 3♂ 2♀: [Turkey]: Hadjin [=Saimbeyli], Mardin; Lectotype ♂ [Hadjin], designated by Hacker (1998: 699) (MNHU). Range (in code): TR LB Cc AZ Nv Ord Kir IR Elb Kdj Ab Oru Mak 01 02 07 13 21 23 24 30 32 33 36 42 46 47 49 51 56 58 60 63 65 70 73 01K 21L 21Lc 30B 30Be 30Bh 36D 36Dd 56F 56Fs 65A 65Am 65Am4 65F 65Fp 70C 70Ce 73C 73Cd 73Cd

Notes: An aestival species, with a single generation, locally common. Flight activity only nocturnal.

108) Haemerusia renalis (Hübner,[1813]) Map 39

Synonym(s): *renalis* Hübner,[1813] Original Reference: *Pyralis renalis* Hübner,[1813], Samml. eur. Schmett. Pyral.2: Taf.24 fig.157. Type(s): Europa. Range (in code): ES FR Si IT YU BG GR TR Cc IR Fa Com Ss Kh By Lo Elb Th Kd Bne IL Pa LB 05 06 09 12 13 15 16 25 30 32 33 36 40 42 46 47 50 56 62 65 66 73 05A 06R 06Rb 06Re 09K 09Ka 12A 12Aa 16A 25T 25F 30B 30Bc1 30Bx 30Bf 33A 33Ad 46G 46Gf 56F 56Fi 65A 65Ai 65D 65Df 65F 65Fp 65Fz 65K 65Kb 73A 73Ad 73Ad2

Notes: An aestival species, with a single generation, rare. Flight activity only nocturnal.

109) Hecatera bicolorata (Hufnagel,1766)

Synonym(s): *bicolorata* Hufnagel,1766; *serena* [Denis & Schiffermüller],1775; *placida* Esper,[1791]; *hieracii* Bkh.,1793; *par* Donovan,1801; *monticola* Dup.,1826; *leuconota* Eversmann,1837; *intermedia* Walker,[1858]; *obscura* Staudinger,1861. Original Reference: *Phalaena bicolorata* Hufnagel,1766, Berl. Mag. 3(3): 410.

Type(s): [Germany]: Berlin. Range (in code): DZ PT ES FR Sa Si IT MT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR Cr TR DK NO SE FI EE LV LT RU Ro Kr St Kc Kb Ich Ing Da Sb At Am MD UA BY IR Fa Es Ke Mz Elb Th Kd Bne Mrv Hz AM AZ GG Lag Len Kir Cc CY LB Bsa IL Pa Hf SY KK Ax TrA Na Ges BSa Hmk Hrh Khh Bsk Agi 01 04 05 06 07 08 13 14 18 21 24 25 28 29 30 33 36 46 49 50 51 53 55 58 60 63 65 66 75 05A 06R 06Rh 113G 13Gy 21L 21Lc 21N 21Nh 30B 30Bd 30Bx 53B 55F 58R 65A 65Ac 65Ac3 65An 65Ai 65Am 65Am1 65At 65At5 65F 65Fa 65Fp 65Fz 65D 65Df 65Du Prep. no: GP842[♂]

Notes: An aestival species, with a single generation, common. Flight activity only nocturnal.

110) Hecatera spinaciae (Vieweg,1790)

Synonym(s): *#dysodea* [Denis & Schiffermüller],1775; *spinaciae* Vieweg,1790; *ornata* De Villers,1789; *chrysozona* Borkhausen,1792; *ranunculina* Haworth,1809; *caduca* Herrich-Schäffer,[1851]; *innocens* Staudinger,1871; *subflava* W.Warren,1910; *faroulti* Rothschild,1914; *antitypina* Rothschild,1914; *africana* Oberthür,1918; *khala* Rungs,1972 Original Reference: *Noctua spinaciae* Vieweg,1790, Tab. Verz. Brand. Schmett. 2:70.

Type(s): [Germany]: Berlin. Range (in code): PT ES FR Co Sa Si IT GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR Cr TR Cc SE LT RU MD UA BY IR Fa By Yas Lo Ss Kh Ke Ha Ab Elb Dam Kd Zj Sse IQ Bgd Agh LB Bsa IL Hf Pa JO Sn CN Ui Ku Li AF Hr Blh Gbh Srb Kab Ch Gs KG Ssn Mn TJ Pm Chr UZ TM Fe KK Ik Hp Ro Kr St Kyi Da CY GG AZ Tbl Bjo Mng Kir Wag Nv Ord Sdt Mrv Bne Zj DZ BSa Ges Agi Eba MA 01 04 05 06 07 13 14 16 18 20 21 24 25 31 32 33 36 44 46 50 51 56 58 60 62 63 65 66 76 05A 06Z 13B 13C 13Cy 16A 21L 21Lc 25F 31K 31Ka 31Ka5 33A 33Ac 44I 44Ic 56F 56Fa 56Fb 58N 65A 65Ac 65Ac3 65Bx 65F 65Fa 65Fr 65Fp 65Fz 65G 65Ge 65K 65N 65Nc 65Kp 65L 65Lb 65N 65Np6 65Nm 76C Prep. no: GP936[♂] GP937[♂]

Notes: An aestival species, with a single generation, uncommon. Flight activity only nocturnal.

111) Helicoverpa armigera (Hübner,[1808])

Synonym(s): *obsoleta* auct. nec Fabr.,1775; *barbara* Fabricius,1794 [rejected]; *armigera* Hübner,[1808]; *pulverosa* Walker,[1857]; *uniformis* Wallengren,1860; *rama* Bhattacharjee & Gupta,1972. Original Reference: *Noctua armigera* Hübner,[1808], Samml. eur. Schmett., Noct. 2: Taf.79, fig.370. Type: [Europa].

Range (in code): Md Cn DZ MA TN PT ES Mu FR Co Sa Si IT MT IE GB BE NL DE CH AT PL CZ SK HU RO YU AL BG GR TR DK NO SE FI EE LV LT RU MD UA BY IR Fa Lo By Yas Ke CN Ui Ku PK Bl Qu AF Ca Gbh Hr Srb Kab Arh Dwe ZA Gau Pre Jh Tva Lpo Spb Mdk CA MX GT CR PA JM IQ JO IL Pa Rd US Tx Cf VE CV BR PE CL ZR SD KE Nta Kzu Dbn Mv Cto Ec Grh Wag Nkny Cto YE Ad SY LB Bei JP Ch IN Hp Sml Gs Drm Cp NI Ddu Up SI NP SG LK ID Ja NAu QAU Bri NSw Syd TS NZ Hw WS PC FJ TO EL NH SB PG AU MY Prk OW NC CY Agh Hf TH CMA CDo Cuo Cuo7 KK Osh Elb Th Dam Kd Snj Mz Gls Kh Gh Mia Kz Ss Chh Kda Cai Bli Sbw Sba Kai GG AZ AM Cc Ro Kr St Kb Kc Nt Ich Ing Da Kyi ET ET24 CV Az Md Kndy Pdy Dek Smt Bjo Lag Kir Bku Der Abe Clo Lbs 01 04 05 06 08 13 14 16 20 25 26 28 31 33 36 37 44 46 47 49 50 51 53 56 57 58 61 63 65 71 75 05A 06R 06Rd 13B 16A 31K 36D 36Db 36F 36Fb 44I 44Lc 44L 49F 49Fb 51B 51Ba 56F 56Fa 56Fb 56Fv 56Fc 58G 63D 65A 65Ai 65Bx 65D 65Dh 65Dj 65G 65Ge 65K 65Kp 75F 75Fb

Notes: A vernal-aestival species, common. Flight activity diurnal-nocturnal.

112) Heliothis nubigera Herrich-Schäffer,[1851]

Synonym(s): *nubigera* Herrich-Schäffer,[1851]; *perigeoides* Moore,1881; *deserta* Sohn-Rethel,1929; *minutier* Thurner,1938. Original Reference: *Heliothis nubigera* Herrich-Schäffer,[1851], Syst. Bearb. Schmett.

Eur. 2:366. Type(s): Kleinasien. Range (in code): Cn DZ PT ES Mu FR Co Sa Si IT MT GB NL DE CH AT PL SK HU RO YU AL BG GR Cr TR CY FI RU Cc AZ Nv Ord Len Ro St Kb Nt Da MD UA BY IR Lo Hz Ss Kh Elb Th Dam Kdj Ak Mrd AF Hr Gbh Arh Dwe Srb Fz LB Bei Bsa IN Hp Dlh IQ Agh Amr Mj Dy SO IL Pa SY Hf JO Sn TM YE Ad SO Kp Gls Bsk Khh BSa Ktr Onç Gtt Gha Abe Sbd Sfr Saia Agi Ges Ah Ajj 01 04 07 10 13 18 20 25 31 33 35 42 44 46 47 50 51 56 58 65 76 07C 13A 13Ab 13Ax 31K 31Ka 31Ka3 31Ka7 44L 44Lc 56F 56Fi 56Fb 56Fm 65A 65Am 65Am1 65Bx 65G 65Ge 65N 65Np 65Np1 65Nm 76C

Notes: A vernal-aestival species, common. Flight activity diurnal-nocturnal.

113) Heliothis peltigera ([Denis & Schiffermüller],1775)

Synonym(s): *peltigera* [Denis & Schiffermüller],1775; *alpheia* Cramer,1780; *florentina* Esper,[1788]; *charmione* Stoll,1790; *straminea* Donovan,1793; *insulata* Navas,1924. Original Reference: *Noctua peltigera* [Denis & Schiffermüller], 1775, Ankündigung syst. Werkes Schmett. Wienergegend: 89. Type(s): [Austria]:

Vienna district. Range (in code): MA DZ Cn PT ES Mu FR Co Sa Si IT MT IE GB BE NL DE CH AT PL CZ SK HU RO YU AL BG GR Cr Rd CY TR DK SE FI EE LV LT RU MD UA BY IR Mz Fa Ke Lo By Yas Hz Ss Kh Ha PK Bl Qu IQ Mj JHa Amr Agh Kq Dk AF Hr Gbh Kab Srb Arh Dwe Bark Fz LB Bsa IN Dlh Hp NP JO Sn IL Pa Hf Dam Kdj Elb Th Ak Mrd Mia Kz Yas Km Kd Snj Hz B-A Maz Gls Kh GG AZ AM Cc KK TrA TM Kp UZ KG Ro Kr St Kb Kc Nt Ing Da CV MM Kba Tbl Smt Bjo Lag Bku Nv Ord Hmk Ktr Khh BSa Perr Sfr Dje Dhm Abe Bsk Hrh Ges Clo Lbs Anna Ah Ajj 01 05 06 07 08 09 13 16 18 20 21 24 25 27 30 31 33 35 36 38 42 44 45 46 50 51 56 58 63 65 66 73 75 80 05A 07B 07Bb 09K 09Ka 13A 13G 13Gö 13Gg 13Gg 16A 18F 21N 21Nb 21Nc 21Nh 30D 30Df 31K 31Ka 31Ka3 31Ka7 33A 33Ac 33Ad 33E 36F 36Fb 44L 44Lc 56F 56Fo 56Fa 56Fb 56Fv 58N 63D 65A 65Am 65Am1 65Am2 65Am3 65An 65Ai 65At 65At5 65D 65Dda 65Df 65Dl 65Du 65E 65Eb 65Ec 65Eç 65Ed 65F 65Fa 65Fd 65Fg 65Fp 65Fr 65Fz 65G 65Ge 65K 65Kb 65Kl 65N 65Np 65Nr4 65Nr7 65Nm 73A 73Aa 73D 73Da 73Df 73Dfc 75F 75Fa

Notes: A vernal-autumnal, very common. Flight activity diurnal-nocturnal.

114) *Heterophysa dumetorum* (Geyer,1834)

Synonym(s): *dumetorum* Geyer,1834; *rhadama* Milliére,1883; *mutica* Christoph,1885; *griseoviridis* Schwingenschuss,1937 Original Reference: *Noctua dumetorum* Geyer,1834, [in] Hübner,J., Samml. eur. Schmett. 3: Taf.176, fig.839. Type: France, Provence. Range (in code): ES FR YU GR TR Cc AZ Nv Ord IR Mz Elb Dam Th 01 04 06 08 13 24 25 30 36 42 46 49 51 53 56 58 60 62 65 66 69 06R 06Re 06Rk 08H 13B 13G 13Gü 13Gw 25F 30B 30Bd 30Bx 30Bh 30Bf 30D 30Dt 36D 49F 53N 56F 56F1 56Fs 65A 65Am 65Am1 65F 65Fr 65Fp 65Fz Prep. no: GP861[♂]

Notes: An aestival species, with a single generation, uncommon. Flight activity only nocturnal.

115) *Hypena munitalis* Mann,1861 **Fig. 18, Map 40**

Synonym(s): *munitalis* Mann,1861 Original Reference: *Hypena munitalis* Mann,1861, Wien. ent. Monatschr. 5: 158. Type ♂: [Türkei]: Amasia. Range (in code): BG MK GR TR GG Smt Bjo Akh Cc AM RU Kr IL Pa LB Bei 01 05 06 07 08 12 13 21 24 25 32 33 42 44 49 50 51 56 58 65 69 73 05A 06R 06Ra 06Rm 13A 13Ab 13Ax 13G 13Gg 13Gü 13Gw 21L 21Lc 32A 42B 42Bb 44E 44Eh 44L 44Lc 49E 49Ea 56C 56Ca 56F 56Fo 56Fs 56Fs1 56Fj 56Fc 56Fv 56Fq 56Fö 56Fm 56F3 65A 65Ac 65Ac3 65Ai 65Am 65Am1 65Am4 65At 65At5 65D 65Df 65F 65Fm 65Fp 65Fr 65Fz 65K 65N 65Nc 65Kp 65Kl 73A 73Ad 73Ad2

Notes: An aestival species, with a single generation, very common. Flight activity crepuscular-nocturnal.

116) *Lacanobia* (s.str.) *w-latinum* (Hufnagel,1766)

Synonym(s): *w-latinum* Hufnagel,1766; *genistae* Borkhausen,1792; *dives* Donovan,1801; *umbrosa* Bytinski-Salz & Brandt,1937; *diniensis* Heinrich,1938; *caerulescens* Schwingenschuss,1962. Original Reference: *Phalaena w-latinum* Hufnagel,1766, Berl. Mag. 3(3): 292. Type(s): [Germany]: Berlin. Range (in code): PT ES FR Si IT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR TR DK SE FI EE LV LT RU Ro Kr St Ing Nt Kyi Da At Sb MD UA BY IR Mz Gls Ha Elb Th Kdj Dam Cc AM GG Smt Bjo Lag AZ Kir Nv Ord KG Tar CN Ui Ii KK Ik Na 04 05 06 11 13 18 21 24 25 28 33 34 36 37 39 42 49 50 58 60 61 65 06R 06Rb 06Rh 13G 13Gg 13Gs 13Gw 21N 21Nb 36D 36Db 49F 49Fb 61K 61Ka 65A 65An 65D 65F 65Fa 65Fm 65Fp 65Fz 65L 65Lb

Notes: An aestival species, with a single generation, uncommon. Flight activity only nocturnal.

117) *Leucania loreyi* (Duponchel,1827)

Synonym(s): *loreyi* Duponchel,1827; *caricis* Walker,1856; *collecta* Walker,1856; *curcula* Walker,1856; *denotata* Walker,1856; *designata* Walker,1856; *exterior* Walker,1856; *thoracica* Walker,1856. Original Reference: *Noctua loreyi* Duponchel,1827, Hist. nat. Lépid. Pap. France 7: 81, pl.105 fig.7. Type(s): [France]: Dijon. Range (in code): Cn Md MA DZ TN PT ES FR Co Sa Si IT MT IE GB NL DE CH AT RO YU BG GR Cr TR DK EE IQ Agh Amr kut Kum LB Bei Bsa IR Elb Fa Ss Ke Kh PK Rw Drm Cp NI Bl Qu AF Hr Srb Arh ZA Nta Kzu Dbn Est IN Pj Kul Sml Hp ID Ja AU Qau Bri Fj TO NC KE JP TW MM PH Ceb CY US Up Bhi Sn EG JO SY IL Pa Hf Mz Gls Th Nos Kdj Ab Sdt Kd Mrv Lo Kz Yas Km Cc RU Ro Kb Ich CV Az Cp Abe Gle Sbd Prr Afl Ges Ktr Bsk Sét Dhm BSa Clo Agi Hrh 06 07 08 13 14 17 24 25 28 31 33 36 42 46 50 56 58 62 65 80 13G 13Gg 31K 31Ka 31Ka3 36F 36Fb 56F 56Fa 56Fm 56Fb 56Fç 56Fö 56Fc 58G 62G 62Gb 65A 65An 65Am 65Am1 65Am4 65Bx 65D 65Dg 65F 65Fg 65Kj 65Fm 65Fr 65Fp 65Fz 65G 65Ge 65K 65Kl 65N 65Nc

Notes: An aestival species, with a single generation, common. Flight activity only nocturnal.

118) *Leucochlaena muscosa* (Staudinger,1892)

Synonym(s): *muscosa* Staudinger,1892; *hirsutus* Staudinger,1892 Original Reference: *Epunda muscosa* Staudinger,1892, Dt. ent. Z., Iris 4: 281-282. Syntypes 5[♂]: [Türkei]: Amasia, ?Maraş, ?Malatia. Range (in code): GR TR IR Hz Elb Gh Km Ksh CY IQ AF TJ TM Kp UZ N-A IL Js Pa RU Cc Da Der 05 06 07 13 23 25 27 33 44 45 46 47 49 50 56 63 65 70 05A 06C 06Cb 06Y 06Yb 13C 13Cf 23I 25D 25F 44F 44Fb 44O 49E 49Ea 56A 56F 56Fm 56Fb 56Fj 56Fö 56F1 56Fv 63E 63L 63M 65A 65Am 65Am4 65D 65Dh 65N 65Np 65Nm 70A

Notes: An autumnal species, with a single generation, locally common. Flight activity only nocturnal.

119) Lithophane ornitopus (Hufnagel,1766)

Synonym(s): *ornitopus* Hufnagel,1766; *rhizolitha* [Denis & Schiffermüller],1775; *pitzalisi* Hartig,1976 Original Reference: Phalaena ornitopus Hufnagel,1766, Berl. Mag. 3(3): 304. Type(s): [Germany]: Berlin. Range (in code): ES FR Co Sa Si IT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU BG GR TR Cc IR GlS DK SE FI EE LV LT RU Ro Kr Da MD UA BY 05 06 08 16 24 25 42 56 62 65 05A 16A 25F 42B 56F 56Fs 56F3 62G 62Gb 65A 65Ai 65Aö 65D 65Dlc

Notes: An autumnal species, with a single generation, locally rare. Flight activity only nocturnal.

120) Luperina dumerilii (Duponchel,1826) Map 41

Synonym(s): *dumerilii* Duponchel,1826; *amenata* Germar,[1842]; *sancta* Staudinger,1892; *armoricana* Culot,1909; *aequalis* Schawerda,1911; *uniformis* W.Warren,1911; *adriatica* Stauder,1913; *hirsuta* F.Wagner,1931; *indistincta* Rebel,1933; *hartigi* L.Ronkay & Varga,1985 Original Reference: Noctua dumerilii Duponchel,1826, Hist. nat. Lépid. Pap. Fr. 6: 277. Type(s): Paris. Range (in code): MA DZ DhM TN Perr BtNa PT ES Co Sa Si IT MT GB BE DE CH RO YU BG GR Cr TR RU Cc Da CY IQ Dia IL Pa Jt JO 01 05 21 35 42 46 65 01C 01K 05A 35O 42B 65A 65Am 65Am4 65D 65Df 65N 65Np 65Np7 65Np8 65Nm

Notes: An autumnal species, with a single generation, very common. Flight activity only nocturnal.

121) Lygephila (s.str.) amasina (Staudinger,1879) Map 42

Synonym(s): *amasina* Staudinger,1879; *sublutea* W.Warren,1913. Original Reference: Toxocampa lusoria var. amasina Staudinger,1879, Horae Soc. ent. ross. 14: 428. Syntypes: [Türkei]: Amasia (Kerasdere). Range (in code): TR IL Pa IR IQ LB Lkl 01 03 04 05 06 07 08 11 18 24 25 32 33 36 42 49 50 51 56 58 62 65 66 70 05A 06R 06Rb 42J 42X 42Xa 33G 50G 56F 56Fm 56Fs 56F1 56Fq 56Fy 65A 65Ai 65D 65Dj 65Dl 65Dlc

Notes: An aestival species, with a single generation, rare. Flight activity only nocturnal.

122) Lygephila (s.str.) craccae (Fabricius,1787) Fig. 19

Synonym(s): *#craccae* [Denis & Schiffermüller],1775; *craccae* Fabricius,1787; *nigricollis* Villers,1789; *riata* Rungs,1952; *caliginosa* Schawerda,1931; *herrerai* Yela,1990; *#craccae* Hacker & Kautt,1999. Original Reference: Noctua craccae Fabricius,1787, Mant. Ins. 2: 154, nr.137. Type(s): [Wien]. Range (in code): MA PT ES Mu FR Co Sa Si IT GB BE LU DE CH AT PL CZ HU RO YU BG GR Cr TR AZ AM GG Cc IQ Ry LB Bsa DK NO SE FI EE LV LT RU Cc Ro Kr St Nt Ich Ing Da MD UA BY IR Fa By Yas Ke Ss Lo Kh Mz Elb Th Dam Kz Yas Skh Kd Snj Lo Yz CN Ui Chk AF Pag KG Tk Dj Ii KK Ik PK Bbu Psu Gg Hu Nar Mlk T-A CY Smt Bjo Mng Lag Kir Bne Mrv 01 05 06 07 08 12 13 14 16 17 18 22 23 24 25 29 30 31 33 36 42 44 48 49 50 56 58 60 62 63 65 75 76 05A 06K 06Kb 06R 06Rq 13C 13Cf 13G 13Gg 13Gü 13Gw 13Gy 16A 23M 25F 30D 30Dx 31K 31Ka 31Ka5 33G 36F 36Fb 44I 44Ic 44L 44Lc 49E 49Ea 56F 56Fc 56Fq 56Fv 62G 62Gb 63E 65A 65Ai 65Ac 65Ac3 65Am 65Am4 65D 65Df 65Dn 65F 65Fa 65Fp 65Fm 65Fj 65Fz 65N 65Np 65Nm 75F 75Fa 76C Prep. no: GP891[♂] GP892[♂]

Notes: An aestival species, with a single generation, uncommon. Flight activity only nocturnal.

123) Lygephila (s.str.) pallida (A.Bang-Haas,1907)

Synonym(s): *pallida* A.Bang-Haas,1907 Original Reference: Toxocampa pallida A.Bang-Haas,1907, Dt. ent. Z., Iris 20: 77. Syntypes: Aintab [Gaziantep]; Zeitun [Süleymanli]. Range (in code): TR 04 06 25 27 38 46 51 58 65 04D 04Da 06R 06Rb 25A 25C 46L 38Ca 58G 58Ga 58Gg 58I 65A 65Ab 65Aba Prep. no: GP1491[♂] GP2380[♂] GP2380[♂] GP2380[♂]

Notes: An aestival species, with a single generation, local, confined to alpine zone. Flight activity only nocturnal. This is apparently new record to Van fauna!

124) Megalodes eximia (Freyer,1845) Fig. 20, Map 43

Synonym(s): *eximia* Freyer,1845 Original Reference: Cosmia eximia Freyer,1845, Neuere Beitr. Schmett. 5: 104. Tab. 442 fig. 3. Type(s): [Türkei]: europäische Türkei. Range (in code): GR TR Cc GG AM RU Da IR Fa Ab Oru Ak Shf Mak Ksh Km Kd SqQ IQ IL Js Pa JO LB Bei 01 05 07 10 13 21 24 25 27 30 33 36 42 44 46 47 49 50 62 63 65 66 73 05A 13G 21N 21Nb 30B 30Bd 30Bx 33E 44L 44Lc 65A 65An 65Am 65Am1 65D 65Dga 65Dg 65Dm 65Dl 65Dlc 65Du 65Dx 65E 65F 65Fp 65Fz 65N 65Nc 65Np6 65Nm 73E 73Eb

Notes: An aestival species, with a single generation, uncommon. Flight activity only nocturnal.

125) Meganola gigantula (Staudinger,1879) Fig. 21

Synonym(s): *gigantula* Staudinger,1879 Original Reference: Roeselia gigantula Staudinger,1879, Horae Soc. ent. ross. 14: 328. Type ♀: [Türkei]: Amasia (NHMU). Range (in code): SK MK BG GR TR IQ 05 06 33 42 46 65 05A 06R 65A 65Ai

Notes: An aestival species, with a single generation, rare. Flight activity only nocturnal. This is apparently new record to Van fauna!

126) Mesogona acetosellae (Goeze,1781)

Synonym(s): *#acetosellae* [Denis & Schiffermüller],1775; *acetosellae* Goeze,1781; *vorbrodti* Wehrli,1917; *grisea* Dannehl,1929; *pallida* Dannehl,1929; *segoviensis* Calle,1982; *#clarescens* Calle,1982 Original Reference: Phalaena acetosellae Goeze,1781, Ent. Beytr. 3(3): 218, nr.175. Range (in code): PT ES FR Si IT BE DE CH AT PL CZ SK HU RO YU BG GR TR RU Ro Kr St Da Sb At Cc GG Smt Bjo AM MD UA BY KG 05 06 14 18 24 25 36 38 56 58 65 05A 06E 06Ea 06R 06Rq 38H 38Hc 36D 56F 56Fs 62G 62Gb 65A 65Ai 65F 65Fa

127) Metachrostis dardouini (Boisduval,1840)

Synonym(s): *dardouini* Boisduval,1840; *velox* Treitschke nec Hbn.,[1813]; *mendacula* Freyer,1841; *dilutior* Schwingenschuss,1926 Original Reference: Bryophila dardouini Boisduval,1840, Gen. Ind. Meth. Eur. Lepid.: 96. Range (in code): PT ES FR IT CH AT SK HU RO YU HV BG GR Cr TR Cc AZ Nv Ord Kir IR Ab Oru Fa Kaz Kh Msh TM Kp CY IL Pa JO LB 06 10 13 16 21 23 30 32 33 50 56 58 65 73 06C 06Cb 13G 13Ge 16A 21L 21Lc 23I 30B 30Bj 56E 56Ea 56F 56Fm 65A 65Am1 65Am4 65D 65Dh 65F 65Fp 65Fz 73A 73Ab

Notes: An aestival species, with a single generation, rare. Flight activity only nocturnal.

128) Metopodicha ernesti Draudt,1936 Figs. 22, 27, Map 44

Synonym(s): *ernesti* Draudt,1936; *achaemenica* Wiltshire,1941 Original Reference: Metopodicha ernesti Draudt,1936, Ent. Rdsch. 53: 492, Taf. iv 5c. Type: [Türkei]: Achyr-Dagh (Marasch). Range (in code): TR IR Fa IQ 12 30 44 46 49 58 62 65 73 30B 30Be 44F 44Fb 46G 49E 49Ea 58G 62G 65A 65Am 65Am4 73C 73Cd Prep. no: GP2396♂

Notes: An autumnal species, with a single generation, locally common. Flight activity only nocturnal. This is apparently new record to Van fauna!

129) Mythimna (Aletia) l-album (Linnaeus,1767)

Synonym(s): *l-album* Linnaeus,1767; *penicillata* Moore,1881 Original Reference: Phalaena l-album Linnaeus,1767, Syst. Nat. (Edn.12)1: 850. Type(s): [Europa]. Range (in code): MA DZ TN PT ES FR Co Sa Si IT MT GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR Cr TR GG AZ AM Cc DK NO SE LV RU Ur MD UA BY IR Fa Ke Lo Es Ha Ss Gh Elb Th Dam Kdj Ab Kz Yas AF Gbh PK IN Pj Sml Dlh Hp Kul Up Bhi SI NP CY IQ LB Bei Bsa IL Pa KK KG CN UZ Tk Dj Ax N-A Ro St Kr Kb Nt Ich Da Thu Smt Bjo Lag Kir Nv Ord Oru Sdt Kd Bne Gls Kh Agi Anna Ges Lgt Blid Bsk Btna Lbs Khh DhM Prr Abe Sbd Afl BSA Hrh Psu Gg Txl Abb Nar Sai 05 06 07 08 10 12 13 16 17 18 21 25 30 31 32 33 34 36 38 39 42 44 45 46 49 50 51 56 58 61 62 63 65 69 80 05A 06R 06Rq 06Y 06Yb 08H 08Ha 13A 13Ab 13Ax 13B 13C 13Cd 13G 13Gg 13Gü 13Gs 13Gw 16A 21N 21Nb 30D 30Dt 30Dx 31K 31Ka 31Ka3 33G 36D 36Db 36F 36Fb 38H 38Hc 44E 44Eh 44L 44Lc 49E 49Ea 56F 56Fo 56Fb 56Fö 56Fv 56Fa 56Fm 56Fq 56F1 58G 61K 61Ka 62G 62Gb 65A 65Ai 65B 65Bo 65Bx 65D 65Df 65Ds 65Dv 65F 65Fg 65Kr 65Fm 65Fp 65Fz 65G 65Ge 65K 65Kl 65N 65Nc 65Nc4 65Np7 65Nm Prep. no: GP2140♂

Notes: An aestival-autumnal species, with a single generation, uncommon. Flight activity only nocturnal.

130) Mythimna (Aletia) vitellina (Hübner,[1808])

Synonym(s): *vitellina* Hübner,[1808]; *#vitellena* Lederer,1870; *decolorata* Dannehl,1929; *saturation* Dannehl,1929; *grisescens* Dannehl,1929. Original Reference: Noctua vitellina Hübner,[1808], Samml. eur. Schmett.,Noct.2: Taf.81, fig.379. Type: [Europa]. Range (in code): Cn MA MR DZ TN PT ES FR Co Sa Si IT MT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR Cr TR IQ Brs Ry Rwz Dia Agh DK RU At MD UA BY PK Ch NP IN Pj Kul CN IR Lo Es Ha Kh Fa Mz Elb Th Kdj AF Hr UZ Fe KK Ik TM KG TJ CY AZ Bak GG Cc LB Bsa SY JO IL Pa T-A Kp N-A Br Ro Kr St Kc Kb Nt Ing Ich Da Tbl Smt Bjo Bku Kir Gls Agi Blid Khh Gue Ges Btna BSA Anna Orn Abe Sfr Sbd DhM Sét Hrh Hmk 01 03 05 06 07 08 09 13 16 17 18 21 22 23 24 25 27 28 29 30 31 33 34 35 36 37 39 42 44 45 46 48 49 50 51 52 56 58 62 63 65 73 75 76 80 05A 06E 06Ea 06R 06Rb 06Rq 06Y 06Yb 07B 07Bb 13A 13Ab 13Ax 13G 13Gü 13Gw 16A 21L 21Lc 21N 21Nb 21Nh 30D 30Dx 33G 36D 36Db 36F 36Fb 44E 44Eh 44L 44Lc 46G 46Gf 48L 49F 49Fb 56E 56Eh 56F 56Fa 56Fb 56Fh 56Fo 56Fv 56F3 56F1 56Fs 56Fç 56Fy 56Fc 58G 62G 62Gb 63D 63E 65A 65Ai 65An 65Am 65Am2 65D 65Df 65Dl 65Dlc 65Ds 65Du 65Dv 65F 65Fa 65Fb 65Fç 65Fd 65Fg 65F1 65Fj 65Fm 65Fr 65Fp 65Fu 65Fz 65G 65Ge 65K 65N 65Nc 65Nc4 65Kd 65Kg 65Kl 65Kp 65Ku 65L 65Lb 65N 65Nm 65Np 65Np1 65Np8 73D 73Db 75F 75Fe 76A 76Ac 76B 76Bb Prep. no: GP2141♀

Notes: A vernal-autumnal species, with probably two annual generations, common. Flight activity diurnal-nocturnal.

131) Mythimna (Hyphilare) ferrago (Fabricius,1787)

Synonym(s): *ferrago* Fabricius,1787; *lithargyria* Esper,[1788]; *grisea* Stephens,1829; *anargyria* Boisduval,1840; *argyristis* Rambur,1858; *meridionalis* Dannehl,1926 Original Reference: Noctua ferrago Fabricius,1787, Mant. Ins. 2: 160, nr.170. Type(s): [Germany]; Kiliae [=Kiel]. Range (in code): DZ MA PT ES FR Co Sa Si IT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR Cr CY TR IQ IR Fa Mz Elb Th Dam Gh DK NO SE FI EE LV LT RU Ro Kr Kc St Kb Nt Ich Ing Da At Sb Ur MD UA BY CN Ui Kun TM KK TrA KG LB IL Pa PK Gg Ch Kag Hu Swa GG AZ AM Cc Smt Bjo Mng Lag Kir Haz Abe Sbd Sét DhM TN 01 04 06 08 09 12 13 24 28 30 33 36 39 42 44 45 46 49 50 56 58 61 62 65 66 06R 06Rb 09K 09Ka 13G 13Gg 13Gü 13Gw 30D 30Dx 44I 44Ic 46G 46Gf 49E 49Ea 56F 56Fs 56Fc 56Fq 56Fö 65A 65Ac 65Ac3 65Am 65Am4 65Bx 65F 65Fa 65D 65Dn 65Fp 65Fz 65Fm 65G 65Ge

Notes: An aestival species, uncommon. Flight activity only nocturnal.

132) *Noctua (Euschesis) janthina* ([Denis & Schiffermüller], 1775)

Synonym(s): *janthina* [Denis & Schiffermüller], 1775; *flavomaculata* Goeze, 1781; *altica* Geoffroy, 1785; *latimarginata* Röber, 1900; *algorica* Oberthür, 1918; *intermedia* Rothschild, 1920 Original Reference: *Noctua janthina* [Denis & Schiffermüller], 1775, Ankündigung syst. Werkes Schmett. Wienergegend: 78. Type(s): [Austria]: Vienna district. Range (in code): DZ Abe Agi Anna DhM TN PT ES FR Co Sa Si IT BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR Cr TR DK SE FI LV LT RU Ro Kr Kb Nt Ich Ing Da Der MD UA Cm BY LB IQ IR Elb Mz Dam Cc AZ Kir 01 03 05 06 07 11 16 17 18 30 33 38 39 42 46 56 59 60 65 70 01A 03H 05A 11E 16A 42B 56F 56Fo 56F1 56Fy 56Fq 56Fb 56Fs 56Fö 59D 65A 65Ai 70C 70Cb Prep. no: GP870[♂]

Notes: An aestival species, rare. Flight activity only nocturnal.

133) *Noctua (Lampra) fimbriata* (Schreber, 1759)

Synonym(s): *fimbriata* Schreber, 1759; *domiduca* Hufnagel, 1766; *fimbria* Linnaeus, 1767; *solani* Fabricius, 1787. Original Reference: *Phalaena fimbriata* Schreber, 1759, Nova Species Insectorum: 13, fig. 9. Type(s): [Deutschland]: Halae [=Halle]. Range (in code): DZ Clo DhM TN PT ES FR Co Sa Si IT MT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR Cr TR DK NO SE FI EE LV LT RU Ro Nov Kr St Kb Kc Nt Ich Ing Da MD UA Ode Cm BY AM GG Smt Bjo AZ Kir Cc IR GlS 03 05 06 07 08 12 13 14 16 18 25 29 30 39 42 43 46 49 51 56 59 60 62 65 73 80 03H 05A 06R 06Rb 08H 13A 13Ab 13Ax 13C 13Cf 13G 13Gg 16A 25T 30B 30Bd 30Bx 42B 42D 49E 49Ea 56F 56F6 56F1 56Fq 56Fs 56Fm 56Fy 59D 65A 65Ai 65Ac 65Ac3 65Ab 65Aba 65D 73C 73Cd Prep. no: GP905[♀]

Notes: An aestival species, uncommon. Flight activity only nocturnal.

134) *Noctua (Latanoctua) orbona* (Hufnagel, 1766)

Synonym(s): *orbona* Hufnagel, 1766; *subsequa* [Denis & Schiffermüller], 1775; *caroni* Lempke, 1964. Original Reference: *Phalaena orbona* Hufnagel, 1766, Berl. Mag. 3(3): 304. Type(s): [Germany]: Berlin. Range (in code): MA DZ TN LY PT ES FR Co Sa Si IT GB BE NL DE CH AT PL CZ SK HU RO YU AL BG GR CY TR DK NO SE FI EE LV LT RU Ro Kr St Kb Nt Ich Ing Kyi Da MD UA Cm BY IR Lo By Yas Zj Elb Th Kdj Kd LB Bsa SY IQ GG Smt Akh Bjo Tbl AZ Hkd Kir Nv Ord AM Cc TM UZ N-A AF Kh LU KG Uk KK Osh TJ Pm Chr Tbl Smt Bjo Lag Kir Nv Ord Bne Ges Clo PK Abb 01 03 04 05 06 07 08 13 14 16 17 18 21 23 25 27 28 30 31 36 38 39 42 43 46 50 51 56 58 59 60 62 63 65 66 70 01L 01La 05A 06E 06Ea 06R 06Ra 06Rb 06Rd 06Rq 06Y 06Yb 13G 13Gg 13Gf 13Gü 13Gw 14I 16A 21L 30D 30Dt 36D 36Db 42B 42D 50G 50Ga 50Gd 56F 56Fb 56Fq 56F3 56Fv 56Fa 56Fc 56Fj 58G 59D 63D 65A 65Ac 65Ac3 65An 65At 65At5 65Ab 65Aba 65Bx 65D 65Df 65Du 65Di 65F 65Fa 65Fb 65Fg 65Fr 65Fp 65Fz 65G 65Ge 65N 65Np7 65Nm 70C 70Cb Prep. no: GP869[♂]

Notes: An aestival species, very common. Flight activity only nocturnal.

135) *Noctua (Paranoctua) comes* (Hübner, [1813])

Synonym(s): *orbona* Fabricius, 1787 nec Hufn., 1767; *comes* Hübner, [1813]; *adsequa* Treitschke, 1825; *prosequa* Treitschke, 1825; *bergensis* Sp.-Schn., 1901. Original Reference: *Noctua comes* Hübner, [1813], Samml. eur. Schmett., Noct. 2: Taf. 111, fig. 521 Type: [Europa]. Range (in code): MA DZ Dzc Hrh Abe Sbd Lbs DhM Tun BtNa TN PT ES FR Co Sa Si IT MT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR Cr TR DK NO SE FI EE LV LT IR Lo Ke Fa Enz Gh Ab Kz Km Kd Lo Mz GlS Elb Kh IQ SY LB Bsa IL Hf Pa JO AM GG Tbl Cc RU Ro Kr St Kb Da Der 01 05 06 07 08 09 10 11 13 16 21 22 30 31 33 39 42 43 44 45 46 56 59 63 65 73 01K 05A 06R 06Rb 11E 13A 13Ab 13Ax 13C 13Cd 13G 13Gg 13Gü 13Gs 13Gw 16A 21L 21Lc 30B 30Bc 30Bc1 30Bd 30Bx 30D 30Dx 31K 31Ka 42B 44L 44Lc 56F 56Fo 56Fb 56Fv 56Fs 56Fq 56F1 56Fc 59D 63D 65A 65Ac 65Ac3 65At 65At5 65Ab 65Aba 65D 65Dn 65F 65Fb 65F 65Fp 65Fz 65K 65Kd 65Kg 65N 65Ne 65Nc 65Np 65Np1 65Np7 65Nm 73D 73Db

Notes: An aestival species, uncommon. Flight activity only nocturnal. Usually sympatric with the previous species.

136) *Noctua (s.str.) pronuba* (Linnaeus, 1758)

Synonym(s): *pronuba* Linnaeus, 1758; *connuba* Hübner, [1822]; *innuba* Treitschke, 1825; *hoegei* Herrich-Schäffer, 1861; *nigra* Krausse, 1912 nec Pieszn., 1908; *decolorata* Turati, 1923. Original Reference: *Phalaena pronuba* Linnaeus, 1758, Syst. Nat. (Edn. 10) 1: 512. Type(s): [Europa]. Range (in code): MA DZ TN LY EG PT ES FR Co Sa Si IT MT IS IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR Cr Rd CY TR DK NO SE FI EE LV LT RU Nov Sr MD UA Cm BY IR Fa Mz Gh Elb Th Kd Bu Dlk IQ Agh Dy Kbl Kro AF PK IN GG Tbl Bjo AZ Kir AM Cc Sb Ur LB Bsa IL Hf Pa JO Sn Az Cn UZ Br Ro Kr St Kc Kb Nt Ing Kyi Da Tbl Smt Bjo Lag Kir Bne GlS BtNa Agi DhM Bdj BSA KhH Orn Anna Abe Sbd Afl Knt Hrh Mzg 01 04 05 06 07 08 13 14 16 17 18 21 24 27 28 31 33 34 35 36 39 42 43 44 45 46 50 51 56 58 59 60 61 62 63 65 71 73 01A 01N 01L 01La 05A 06D 06Da 06R 06Ra 06Rb 13G 13Gg 16A 21N 21Nb 31K 31Ka 31Ka5 36D 36Db 42B 42D 44E 44Eh 44I 44Ic 44L 44Lc 56F 56Fa 56Fh 56F6 56Fv 56Fm 56F1 56Fc 58G 59D 63D 65A 65Am 65Am4 65Ab 65Aba 65D 65DI 65Dlc 65F 65Fa 65Fb 65Fp 65Fz 65Fu 65Fm 65Fr 65K 65Kd 65Kp 65N 65Np 65Np1 65Np8 65Nm 73D 73Db Prep. no: GP883[♂] GP904[♂]

Notes: An aestival species, very common. Flight activity only nocturnal.

137) Nycteola revayana (Scopoli,1772) Fig. 28, Map 45

Synonym(s): *revayana* Scopoli,1772; *duplana* Fabricius,1777; *ilicana* Fabricius,1781; *fasciatum* Retzius,1783; *punctana* Thunberg,1784; *anglica* Fourcroy,1785; *rivagana* Fabricius,1787; *ramosana* Hübner,1793; *undulana* Hübner,[1799]; *bifasciana* Donovan,1801 nec Hbn.,1787; *stonius* Curtis,1829; *russiana* Duponchel,[1845]; *bilineatella* Walker,1866; *fuscilana* Schmid,1886; *diplographa* Hampson,1905 Original Reference: *Phalaena* (Tortrix) *revayana* Scopoli,1772, Annu. hist. nat. Leipzig 5: 116. Type(s): [Slovakia]: "Schemnitz". Range (in code): MA DZ Abe Btma Sbd Sfr Hmk Gue DhM TN PT ES Mu FR Co Sa Si IT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL B-H HV MK BG GR TR DK NO SE FI EE LV LT RU Cc Kr Kb Da Tv MD UA BY CY IR Fa GlS Kh IL Pa LB Bsa KG Ssn 07 33 42 46 56 65 42J 46G 46Gi 56E 56Eh 56F 56Fy 65A 65Ac3

Note: A single male (f. *punctana*) was captured by light trap at Spindana on 7 8 2016, by the authors. This individual form is easily distinguishable by the basal, median and submarginal black spots on grayish fore-wing upperside (**Fig.28**). This is apparently new record to Van fauna!

138) Omphalophana antirrhinii (Hübner,[1803])

Synonym(s): *antirrhinii* Hübner,[1803] Original Reference: *Noctua antirrhinii* Hübner,[1803], Samml. eur. Schmett., Noct. 2: Taf.52, fig.253. Type: [Europa]. Range (in code): ES FR Si IT DE AT PL CZ SK HU RO YU AL BG GR TR IR Elb Th Fa Lo Kz Yas UA Lo IQ LB Bsa IL Pa Hf JO GG Lag AZ AM Cc RU Ro Ing Da Der 05 06 13 16 17 18 24 25 33 35 42 45 46 50 51 56 58 60 63 65 76 05A 13G 13Gs 13Gw 16A 33G 56F 56F1 58G 58N 65A 65Am 65Am4 65D 65Dlc 65Ds 65F 65Fa 65N 65Np 65Np2 65Nm 76C

Notes: An aestival species, uncommon. Flight activity only nocturnal.

139) Ophiusa lunaris (Goeze,1781)

Synonym(s): *#lunaris* [Denis & Schiffermüller],1775; *lunaris* Goeze,1781; *undosa* Goeze,1781; *ventrilabris* Fabricius,1787; *tarsiplumalis* Hübner,1796; *inconspicua* W.Warren,1913; *chosensis* Bryk,1949. Original Reference: *Phalaena lunaris* Goeze,1781, Ent. Beytr. 3(3): 224. Range (in code): DZ Sbd Btma Lbs KhH Ahr Agi PT ES Mu FR Co Sa Si IT GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR TR DK SE RU Cc Ro Kr St Kb Nt Inc Kyi Da MD UA BY CY IR JO IL Pa AM Cc 01 05 06 07 10 13 16 18 21 25 32 33 35 39 42 50 56 62 65 80 05A 06R 06Rb 16A 21N 21Nh 21Nb 32F 39K 56F 56Fa 56Fb 56Fh 62E 65A 65Ai 65D 65Dlc 65Dh 65Ds 65Dv 80C

Notes: An aestival species, uncommon. Flight activity only nocturnal.

140) Opigena polygona (Fabricius,1787)

Synonym(s): *#polygona* [Denis & Schiffermüller],1775; *polygona* Fabricius,1787; *nigrofulva* Esper,[1788]; *pyramis* Borkhausen,1792; *#polygena* Hacker & Weigert,1986 Original Reference: *Noctua polygona* Fabricius,1787, Mant. Ins. 2: 176, nr.267. Type(s): [Wien]. Range (in code): ES FR IT NL DE CH AT PL CZ SK HU RO YU AL BG GR DK NO SE FI EE LV LT RU MD UA BY Cc AM Eri TR IR Elb Kh Kd Bne Mrv Fa Ha Zj Mz Th Dam CN Ti NP IN Sb KK Na 03 04 12 13 17 18 24 25 30 36 39 42 60 65 69 04D 04Da 13D 13G 13Ga 13Gg 13Gü 13Gw 25A 25C 25Ca 25D 25N 30B 30Bj 30D 30Da 36F 42B 49E 49Ea 60C 65A 65Am 65Am4 65D 65Df 65Dh 65F 65Fm 65Fp 65Fz 65K 65Kl 65N 65Nr2 65Nm

Notes: An autumnal species, locally common. Flight activity only nocturnal.

141) Pamparama acuta (Freyer,[1837])

Synonym(s): *acuta* Freyer,[1837]; *producta* Lederer,1857; *pygmaea* Staudinger,1871. Original Reference: *Acronicta acuta* Freyer,[1837], Neue. Beitr. Schmett. 3:88, Tab.255 fig.3. Type(s): [Turkey]: Konstantinopel [=Istanbul]. Range (in code): GR TR LB Bei IQ Cc AM AZ CY IL Pa Js JO IR Th Elb Kdj Ab Hz B-A 02 06 07 09 16 21 23 30 32 33 34 35 38 42 44 46 50 51 56 63 65 06C 06Cb 06Y 06Yb 07C 07Cc 21N 21Nh 23I 16A 30B 30Bd 30Bx 33G 38H 44L 44Lc 50G 50Ga 51D 51Da 56F 56Fa 56F1 56Fw 63E 65A 65Am 65Am1 65N 65Np 65Nm

Notes: An aestival species, uncommon. Flight activity only nocturnal.

142) Perigrapha (Opacographa) cilissa Püngeler,1917 Map 46

Synonym(s): *cilissa* Püngeler,1917 Original Reference: *Perigrapha cilissa* Püngeler,1917, Mitt. münch. ent. Ges. 8: 19. Type ♀: [Türkei]: Taurus. Range (in code): TR IQ 07 13 23 33 42 44 51 56 58 65 13D 13Da 23I 23M 42U 51D 51Da 56F 56F1 65A 65Am 65Am2 65D 65Dlc 65E 65Eb 65F 65Fd 65Fp 65Fm 65Fu 65Fz

Notes: A vernal species, rare. Flight activity only nocturnal.

143) Periphanes (Helioictoria) victorina (Sodoffsky,1849)

Synonym(s): *victorina* Sodoffsky,1849 Original Reference: *Heliothis victorina* Sodoffsky,1849, Stettin ent. Ztg. 10:130. Syntypes: Kaukasus. Range (in code): RO YU BG GR TR GG Cc RU St Da AZ Nv Ord Der 05 06 08 14 15 16 18 23 24 25 30 32 33 44 46 50 51 55 56 58 65 69 70 05A 06C 06Cb 06R 06Y 06Yb 14E 23I 25F 30B 30Bd 30Bx 30Bh 44L 44Lc 51D 55F 56F 56Fa 56Fq 58G 58N 65A 65Ai 65B 65Bo 65Bx 65D 65Dl 65Ds 65Dx 65F 65Fa 65N 65Np6 65Nm 70C 70Cf

Notes: An aestival species, uncommon. Flight activity only nocturnal.

144) Periphanes (Philareta) treitschkii (Frivaldszky, 1835) Map 47

Synonym(s): *treitschkii* Frivaldszky, 1835; *taurica* Herrich-Schäffer, 1851 Original Reference: Heliotis treitschkii Frivaldszky, 1835, Tarsas. tud. Akad. Evkönyv. 2:273. Syntypes: [Bulgaria]: Slivno. Range (in code): YU MK AL BG SLV GR TR Cc RU St Da IR By Yas Kz Ab Mak LB Bsa IL Pa 04 05 06 07 08 13 25 30 31 33 36 44 46 51 56 63 65 73 05A 06R 06Re 25N 25Na 30B 30Bd 30Be1 30Bx 30Bf 30D 30Da 31K 31Ka 51D 56F 56Fa 63E 65A 65Ac 65Ac3 65F 65Fa 73A 73Ab

Notes: An aestival species, uncommon. Flight activity only nocturnal.

145) Phlogophora meticulosa (Linnaeus, 1758)

Synonym(s): *meticulosa* Linnaeus, 1758; *lamii* Schadewald, 1993 Original Reference: Phalaena meticulosa Linnaeus, 1758, Syst. Nat. (Edn.10): 513. Type(s): [Europa]. Range (in code): MA DZ Abe Ges BtNa DhM Hrh TN PT ES Mu FR Co Sa Si IT MT IS IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR Cr TR Cc GG Tbl Bjo Smt Lag AZ Kir IQ Agh CY LB IL Hf Pa IR Gh Elb Clu Mz DK NO SE FI EE LV LT RU Ro St Kr Kc Kb Nt Ich Da MD UA BY 05 06 07 13 14 16 18 21 24 25 33 34 36 38 46 50 51 56 58 62 65 05A 06R 06Rb 06Y 06Yb 13G 13Gs 13Gw 16A 21L 21Lc 21N 21Nb 21Nh 25D 36D 36Db 38H 38He 56E 56Eh 56F 56Fa 56Fv 58G 62G 62Gb 65A 65Am 65Am4 65D 65Df 65Dv 65F 65Fp 65Fz 65N 65Ne 65L 65Lb

Notes: An aestival species, uncommon. Flight activity only nocturnal.

146) Plecoptera inquinata (Lederer, 1857)

Synonym(s): *inquinata* Lederer, 1857; *pyrami* Rogenhofer, 1873; *amanica* Osthelder, 1933 Original Reference: Madopa inquinata Lederer, 1857, Wien. ent. Monatschr. 1:98. Type(s): [Lebanon]: Beirut. Range (in code): TN LB Bei Bsa IL Pa TR Cc AZ Kir Nv Ord IQ Rvw IR Fa Ke Lo Ss Kaz Mia Sse Kz Yas SY Pmy 01 07 08 13 30 31 33 42 46 56 65 01F 08H 13C 13Cf 30B 30Be1 30Bx 30Bh 30Bi 30Bj1 31K 31Ka 31Ka3 31Ka5 31Ka7 33A 33Ac 33Ad 46G 46Gf 56F 56F1 56Fs 56Fv 56Fb 56Fc 65A 65Ai 65Am 65Am1 65D 65Dl 65Dlc 65F 65Fp 65Fz

Notes: An aestival species, common. Flight activity only nocturnal.

147) Polymixis (Parabrachionycha) trisignata (Ménétriés, 1847) Map 48

Synonym(s): *trisignata* Ménétriés, 1847; *leuconota* Herrich-Schäffer, [1850]; *nasamonius* Turati, 1924 Original Reference: Haden trisignata Ménétriés, 1847, Mém. Acad. imp. St. Petersb. 6: 70, pl. 6 fig. 9. Type: Turkmenistan. Range (in code): LY RO MK BG GR Cr Rd TR Cc AZ Kir RU Ro UA TM CY LB IL Pa Hf JO SY UZ Fe AF IR Elb Th GlS 05 06 07 19 36 45 46 50 56 58 63 64 65 70 05A 06E 06Ea 06R 06Rb 36F 36Fb 56E 56Eh 58G 64F 65A 65An 65Aö 65Am 65Am4 65F 65Fm

Notes: An autumnal species, uncommon. Flight activity only nocturnal.

148) Polymixis (s.str.) crinomima (Wiltshire, 1946) Map 49

Synonym(s): *crinomima* Wiltshire, 1946; *jabaliya* Wiltshire, 1987 [ssp.]; *diluta* L. Ronkay, Z. Varga & M. Hreblay, 1998 [ssp.] Original Reference: Antitype crinomima Wiltshire, 1946, Proc. R. ent. Soc. Lond. 15 (9/10): 120, Pl. 1 a, b. Holotype ♂: Iran, Kermanshah (BMNH). Range (in code): IR Fa Km TR TM Kp OM AE 30 65 30B 30Bd 30Bx 65A 65Am 65Am4 65F 65Fe 65Fg

Notes: An autumnal species, very common. Flight activity only nocturnal.

149) Polymixis (s.str.) ivanchiki Pekarsky, 2012 Fig. 29, Map 50

Synonym(s): *ivanchiki* Pekarsky, 2012 Original Reference: Polymixis ivanchiki Pekarsky, 2012, Zookeys 201: 16-19. Holotype ♂: Lebanon N., Fnaideg env. 1440m 12 x 2007, leg. Krüger, Saldaitis (coll. Pekarsky, HNHM, Budapest). Range (in code): LB Bei IL Pa Hf Js TR IR Km Ksh 31 56 63 65 31L 56F 56Fj 56Fb 56Fa 63E 65A 65Am 65Am4 Prep. no.: GP2439[♂]

Notes: An autumnal species, uncommon. Flight activity only nocturnal. It is easily distinguishable from its closely allied species, *P. serpentina* by the male genitalia (**Fig. 29**). This is apparently new record to Van fauna!

150) Polymixis (s.str.) rufocincta (Geyer, 1828) Fig. 23, Map 51

Synonym(s): *rufocincta* Geyer, [1828]; *farinosa* Freyer, 1848; *mucida* Guenée, 1852. Original Reference: Noctua rufocincta Geyer, [1828], [in] Hübner, Samml. eur. Schmett. 2, Noctuae: Taf. 160, figs. 747-748. Syntypes: Fiume [= Rijeka]. Range (in code): FR Sa Si IT CH AT HU RO YU AL BG GR Cr Rd TR Cc AZ Kir CY LB Bsa IL Pa Hf JO IR Fa RU Kr Nt Da Kap 01 05 06 08 13 31 44 46 56 58 62 65 05A 06E 06Ea 06R 06Rb 06Rq 06Y 13C 13Cd 13Cf 31K 31Ka 31Ka5 31L 56E 56Eh 56F 56Fa 56Fv 56Fç 58G 65A 65Ai 65Ap 65i 65Aö 65An 65Am 65Am4 Prep. no.: GP2424[♂]

Notes: An autumnal species, common. Flight activity only nocturnal. At Vasting, a full grown larva of this species was found from Paşaköy (65Ai) and reared by the first author (**Fig. 23**).

151) Polypogon schwingenschussi (Wagner,1937) Fig. 30, Map 52

Synonym(s): *schwingenschussi* Wagner,1937; *elbursalis* Draudt,1937. Original Reference: Zanclostatheme schwingenschussi Wagner,1937, Z. öst. EntVer. 22: 63, Taf.1 fig.5. Syntypes: Iran, Tarsee Gebiet (LNK). Range (in code): IR Th Elb Kdj Fa Kaz Mia Kz Yas Skh Lo By TR 30 56 65 73 56F 56F1 56Fa 56Fv 56Fs 65A 65Am 65Am4 65D

Notes: An aestival species, rare. Flight activity only nocturnal.

152) Pseudenargia deleta (Osthelder,1933)

Synonym(s): *deleta* Osthelder,1933; *#badiofasciata* Draudt,1936; *basilissa* Brandt,1938. Original Reference: Enargia regina ssp. deleta Osthelder,1933, Mitt. münch. ent. Ges. 23: 78. Syntypes: Türkei: Maraş. Range (in code): TR Cc IQ LB IL Pa IR Elb Th Fa Sse Shr 01 04 13 23 30 36 44 46 56 58 62 63 65 73 04D 04Da 13C 13Cf 13D 13Da 30B 30Bh 30Bj1 36F 36Fb 38G 44F 44Fb 44I 44Ic 56F 56Fö 63B 65A 65Am 65Am4 65D 65Df 65F 65Fa 65F1 65Fm 65Fp 65Fz 65Fş 65K 65Ku 65N 65Np 65Np7 65Nm 73C 73Cd

Notes: An autumnal species, common. Flight activity only nocturnal.

153) Recophora beata (Staudinger,1892)

Synonym(s): *beata* Staudinger,1892 Original Reference: Metopoceras (?) beata Staudinger,1892, Dt. ent. Z., Iris 4: 274, Taf. iiifig. 9. Type 1♀: [Türkei]: Hadjin, 20.Juni 1890 (Manissadjian leg.). Range (in code): TR IR Ab Oru Fa Km Ab IQ IL Pa SY Dms 01 06 13 21 23 24 30 42 44 56 63 65 73 01K 13C 13Cf 21N 21Nh 23I 24L 30B 30Bd 30Bc1 30Bx 30Bd 30Be 30Bf 30Bj 30Bi 30D 30Da 44L 44Lc 56F 56Fa 56Fv 56Fq 56Fb 56F1 65A 65At 65At5 65D 65Dh 73C 73Cd 73D 73Da

Notes: An aestival species, with a single generation, uncommon. Flight activity only nocturnal.

154) Rhyacia (s.str.) lucipeta ([Denis & Schiffermüller],1775)

Synonym(s): *lucipeta* [Denis & Schiffermüller],1775. Original Reference: Noctua lucipeta [Denis & Schiffermüller], 1775, Ankündigung syst. Werkes Schmett. Wienergegend: 71. Type(s): [Austria]: Vienna district. Range (in code): DZ Blid ES FR Co Si IT GB BE NL LU DE CH AT PL CZ SK HU RO YU BG GR TR Cc IR Zj Elb Th Ab Dam IQ RU St Nt MD UA BY 06 08 25 36 38 44 46 49 50 53 56 58 60 63 64 65 66 44E 44Eh 53N 56F 56Fm 56Fv 58G 58N 65A 65Ai 65Bx 65F 65Fa 65F 65Fp 65Fz 65G 65Ge 65N 65Np8 65Nm

Notes: An aestival species, uncommon. Flight activity only nocturnal.

155) Rhyacia (s.str.) simulans (Hufnagel,1766)

Synonym(s): *simulans* Hufnagel,1766; *tristis* Fabricius,1775; *pyrophila* [Denis & Schiffermüller],1775; *radicea* Esper,[1789]; *obscurata* Staudinger,1901; *augurides* Rothschild,1914 Original Reference: Phalaena simulans Hufnagel,1766, Berl. Mag. 3 (3): 396. Type(s): [Germany]: Berlin. Range (in code): DZ Ges MA TN PT ES FR Co Sa Si IT IE GB BE NL DE CH AT PL CZ SK HU RO YU AL BG GR GG Tbl AZ Kir AM Cc TR Arr LB Bsa DK NO SE FI EE LV LT RU Kr St Kb Nt Ich Ing Kyi Da Sb At To MD UA BY UZ Fe KK Ik CN Ui Ii 01 04 06 17 22 33 46 50 58 65 76 01K 06R 06Rq 33G 58G 65A 65Am 65Am3 65N 65Np6 65Nm

Notes: An aestival species, uncommon. Flight activity only nocturnal.

156) Sideridis (Aneda) rivularis (Fabricius,1775)

Synonym(s): *rivularis* Fabricius,1775; *cucubali* [Denis & Schiffermüller],1775; *rivosa* Ström,1783; *behenis* Freyer,1845. Original Reference: Noctua rivularis Fabricius,1775, Syst. Ent.: 613. Type(s): [Germany]: Sachsen. Range (in code): ES FR Co Sa Si IT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU BG TR GG Lag Smt Bjo AM Cc DK NO SE FI EE LV LT RU Ro St Kb Nt Ich Ing Da Am Prj Us MD UA BY KG TJ KK Ik Ax TrA UZ CN JP 04 08 09 13 14 18 23 24 28 36 42 49 50 55 61 65 73 75 08H 08Hc 13B 13A 13G 13Gy 42B 55F 61K 61Ka 65A 65Ai 65Am 65Am4 65F 65Fr 65Fm 65Fg 65Fz 73A 73Ad 73Ad2

Notes: An aestival species, uncommon. Flight activity only nocturnal.

157) Sideridis (Luteohadena) luteago ([Denis & Schiffermüller],1775)

Synonym(s): *luteago* [Denis & Schiffermüller],1775; *brunneago* Esper,[1804]; *nigrescens* Wagner,1926 (*praeocc.*); *ottomana* Koçak,1990. Original Reference: Noctua luteago [Denis & Schiffermüller], 1775, Ankündigung syst. Werkes Schmett. Wienergegend: 86. Type(s): [Austria]: Vienna district. Range (in code): DZ Hrh FR AD Co Si IT MT GB DE CH AT PL CZ SK HU RO YU AL BG GR Cr Rd FI LV LT RU Ro Kr St Kb Nt Ich Ing Da MD UA BY TR IR Fa Kh Elb Th IQ LB Bsa SY GG Tbl Bjo Smt Kir Cc AZ AM KK KG 04 05 06 07 08 11 13 18 21 24 25 29 30 33 36 37 42 49 50 58 60 61 65 73 05A 11A 13A 13Ab 13Ax 13G 13Gg 13Gw 13Gs 50G 65A 65Am2 65Am4 65An 65Ai 65B 65Bo 65Bx 65D 65Df 65Dg 65Dh 65F 65Fc 65Fg 65Fm 65Fr 65Fz 65G 65Ge 65L 65Lb 65N 65Np6 65Nm 73A 73Ab Prep. no: GP852♂

Notes: An aestival species, common. Flight activity only nocturnal.

158) Spodoptera exiguum (Hübner,[1808])

Synonym(s): *exigua* Hübner,[1808]; *fulgens* Geyer,[1832]; *pygmaea* Rambur,1834; *junceti* Zeller,1847; *caradrinoides* Walker,1856; *flavimaculata* Harvey,1876; *venosa* Butler,1880; *sebghana* Austaut,1880; *antipodea* W.Warren,1914; *protector* De Laever,1985. Original Reference: Noctua exigua Hübner,[1808], Samml. eur. Schmett. Noct.2, Taf.78 fig.362. Type(s): Europa. Range (in code): MA DZ TN PT ES Mu FR Co Sa Si IT MT IE GB BE NL DE CH AT PL CZ SK HU RO YU AL BG GR Cr TR GG AZ AM Cc DK NO SE FI EE LV LT RU MD UA BY CY LB Bsa IQ Agh Bgd Qr Amr KW PK Bl Qu AF Hr Gbh Srb Arh Dwe Kab ZA Gau Pre Tva Nta Kzu Dbn Est ZW IL Hf Rd Pa IR TH Fa Lo By Kz Yas Ke Hz B-A Ss Ha Kh Ab Oru Mz Elb Dam Kdj Kh Gh Bu Dlk Ro St Kb Nt Ich Ing Da ET ET24 YE Ad CV Az Md Cn Hw CA US Cp Rw Ges Ktr Agi Lgt BSa Gha Gtt Omy Ogl Gle Khh Blid Sét Abe Bsk Perr Sfr Btina Hmk DhM Hrh Onç Ah Ajj 01 05 07 08 13 14 16 17 18 21 25 27 29 30 31 32 33 36 38 42 43 44 45 46 49 50 51 52 56 58 63 64 65 69 05A 13A 13Ab 13Ax 13B 16A 21A 21N 21Nc 33G 44I 44Ic 49F 49Fb 56F 56Fb 56Fö 56Fç 56Fv 56Fç 56Fa 56Fs 56Fm 58N 63D 65A 65An 65Am 65Am2 65D 65Df 65Dg 65F1 65Fz 65K 65Ku 65Kp 65L 65Lb 65Nc 65N 65Nc4 65Np1 65Np5 65Nm

Notes: An aestival-autumnal species, common in anthropogen habitats. Flight activity only nocturnal.

159) Standfussiana lucerneae (Linnaeus,1758) Map 53

Synonym(s): *lucernea* Linnaeus,1758; *dubia* Vorbrodth,1911; *pallida* Schawerda,1933 Original Reference: Phalaena lucerneae Linnaeus,1758, Syst. Nat. (Edn.10)1: 510. Type(s): Europa. Range (in code): ES FR IT IE GB DE CH AT PL CZ SK RO YU AL MK BG GR TR IR Elb Kh Lo Ha Mz Es Th DK NO SE FI RU Cc Kb Da Kus MD UA BY AM AZ LB Bsa CY AF 06 13 18 25 30 44 46 58 65 06R 06Ra 06Rq 13G 13Gü 13Gw 25C 25Ca 30B 30Be 65A 65Ab 65Aba 65D 65Dg 65F 65Fp 65Fg 65Fz

Notes: An aestival species, uncommon. Flight activity only nocturnal.

160) Tholera hilaris (Staudinger,1901) Fig 24, Map 54

Synonym(s): *hilaris* Staudinger,1901; *gracilis* Kostrowicki,1963 Original Reference: Epineuronia popularis var. hilaris Staudinger,1901, [in] Staudinger & Rebel, Cat. Lep. palaearkt. Faunengeb. (3) 1: 155. Syntypes: [Turkey]: Pontus, Armenia; [Russia]: Sarepta. Range (in code): TR RU Sr Ich IL Js Pa JO Cc GG AZ AM IR Kh Nys 06 36 50 58 65 69 06C 06Cb 06E 06Ea 06R 06Rq 06Y 06Yb 58G 65A 65Ai 65D 65Df 65Dh 65F 65Fp 65Fz 65N 65Nb 65Np 65Np2 65Nm

Notes: An autumnal species, common. Flight activity only nocturnal.

161) Trichoplusia ni (Hübner,[1803])

Synonym(s): *ni* Hübner,[1803]; *humilis* Walker,1858; *extrahens* Walker,1858; *brassicae* Riley,1870; *echinocystidis* Strecker,1874; *deserticola* Rothschild,1913 Original Reference: Noctua ni Hübner,[1803], Samml. eur. Schmett. 4, Noctuae: Tab.58 fig. 284. Type(s): Europa. Range (in code): MA DZ TN LY PT ES Mu FR Co Sa Si IT MT IE GB BE NL DE CH AT PL CZ SK HU RO YU AL BG GR Cr CY TR DK SE FI EE RU EG IL Hf Pa LB Bsa JO SY SA IQ Kq Agh Amr IR Fa By Yas Lo Kh Elb GG AM AZ Cc AF Bsg Nu Kab Hr Pli Srb Gbh Ca Arh Dwe PK IN KP KR CN US CA CU ZA MX Cn MD UA BY CV Wca Cto JP MG NZ Hw TH VN NP Elb Mz Th Kz Clu Dam Plr Kdj Ab Sdt Skh Kd Bne Snj B-A Hz Kaz Mia Ss Chh Ke UZ Br Ro Kr St Kb Nt Ich Ing Da DJ DJ44 Cp Tbl Smt Bjo Kir Der Hal Sbd Blid Afl Bsk Agi Hrh Sfr Perr BSa Ktr Dzc Abe Orn Gle Btina Hmk DhM Tun Mzg Onç Ah Ath 01 05 06 07 08 11 12 13 16 17 18 21 31 33 36 44 46 48 50 51 56 58 65 05A 06R 12E 12Ec 16A 21N 21Nh 31K 31Ka 31Ka3 33E 33G 36D 36Db 44L 44Lc 46G 46Gf 48L 56F 56Fv 56Fa 56Fb 56Fç 65A 65Ai 65Am 65Am1 65At 65At5 65D 65Dd 65Dda 65DI 65Dlc 65Dv 65F 65Fa 65Fb 65Fp 65Fr 65K 65Kp 65N 65Nc

Notes: An aestival species, common in agricultural habitats. Flight activity diurnal-nocturnal.

162) Tyta luctuosa ([Denis & Schiffermüller],1775) Map 55

Synonym(s): *luctuosa* [Denis & Schiffermüller],1775; *italica* Fabricius,1781; *atra* Goeze,1781 nec Linn.,1767; *astroites* Fourcroy,1785; *maculosa* Villers,1789 Original Reference: Noctua luctuosa [Denis & Schiffermüller],1775, Ankündigung syst. Werkes Wiener Gegend: 90. Type(s): [Austria]: Wien. Range (in code): MA DZ PT ES Mu FR Co Sa Si IT MT GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR Cr Rd TR GG AZ Len AM Cc CY IL Pa Hf LB SY JO IR Ab Oru Jal Fa Es Ha Kh Elb Mz Dam Th Ab Km Kd DK SE FI EE LV LT RU MD UA BY At KG Tks Tk Dj KK Ik TrA Osh UZ CN Ui Kun Ku AF IQ Agh Ro Kr St Kb Nt Ich Kyi Da Sdt Bjr Zj Agi Btina Hmk Abe Hrh Perr Sét Tiz Dzc DhM Rbt 01 04 05 06 07 08 11 13 14 16 17 18 22 23 25 30 31 32 33 34 35 36 38 42 44 46 50 51 56 58 60 61 62 63 65 66 67 69 70 71 75 76 05A 06R 06Rd 13G 13Gy 16A 31K 31Ka 33G 36D 36Db 44E 44Eh 46G 46Gf 56F 56Fç 56Fb 56F1 56Fy 58N 60G 63D 65A 65Aö 65Au 65An 65Am 65Am4 65D 65DI 65Dlc 65Dt 65Du 65Dv 65F 65Fç 65Fz 65K 65Kp 65N 65Nc 65Np6 65Nm 65Kl 65M 65Mc 65Md 75F 75Fb 76A 76Ac 76B 76Bf 76Bh 76D 76Dd

Notes: An aestival species, common. Flight activity diurnal-nocturnal.

163) Ulochlaena hirta (Hübner,[1813])

Synonym(s): *hirta* Hübner,[1813] Original Reference: Noctua hirta Hübner,[1813], Samml. eur. Schmett. Noct. 2: Taf.128 fig. 591. Type(s): Europa. Range (in code): DZ Mage Btina Afl FR Si IT CH RO YU BG GR RU Ro St Da Kyi MD UA TR Cc GG Smt Bjo Tbl Da Der AZ Kir SY JO IR Ab Oru Elb Th Plr GlS TM Kp 04 05 06 07 13 32 30 36 38 44 46 49 56 58 62 65 70 05A 06E 06Ea 06R 06Rq 06Y 06Yb 07A 13C 13Cd 13G 13Gd 30D 30De 36D 36Db 36F 36Fb 38H 38Hc 44E 44Eh 56F 56Fo 56Fa 56Fb 56Fç 58G 58Gb 58Q 65A 65Am 65Am4 65Ai 65An 65Aö 65D 65Df 65K 65Kd 65N 65Nc

Notes: An autumnal species, common. Flight activity only nocturnal.

164) *Xylena exsoleta* (Linnaeus,1758)

Synonym(s): *exsoleta* Linnaeus,1758; *exoleta* Fabricius,1787; *impudica* Staudinger,1888; *canaria* Pinker,1969
Original Reference: *Phalaena exsoleta* Linnaeus,1758, Syst. Nat. (Edn.10) 1: 515. Type(s): [Europa].

Range (in code): Cn Md MA DZ Sbd Blid Ges Sfr Hrh Afl TN PT ES FR Sa Si IT MT IS IE GB BE NL DE CH AT PL CZ SK HU RO YU BG GR TR GG Smt Bjo Tbl Cc IQ IR Kh AF LB IL Js Pa He DK NO SE FI EE LV LT RU Ro Kr St Da MD UA BY CN Ti KK Ik KG Ssn Tar Lps UZ Smk Fe 01 05 06 09 13 15 25 26 33 36 45 46 50 65 66 05A 06C 06Cb 13F 25D 50G 65A 65Ai 65K 65Kl 65Ky 65Ky1

Notes: An autumnal species, uncommon. Flight activity only nocturnal.

165) *Zekelita (Rhynchodontodes) antiqualis* (Hübner,[1809]) Map 56

Synonym(s): *antiqualis* Hübner,[1809]; *mardinalis* Staudinger,1892; *anatolica* F.Wagner,1931; *#antiquilis* Zukowsky,1941
Original Reference: *Pylalis antiqualis* Hübner,[1809], Samml. eur. Schmett. 6,

Pylalides: Tab.23 fig.152. Type(s): Europa. Range (in code): Si IT RO YU AL BG GR Cr CY TR AM GG Lag AZ Nv Ord RU Cc Ro St Kr LB Bsa IL Pa JO IR Ab Oru Sdt Mrv Bnc Km Kd Sqq AF 01 03 05 06 07 08 12 16 17 18 24 30 32 33 35 36 37 42 44 45 46 47 48 50 51 56 58 62 65 67 70 73 03E 05A 06R 06Rb 16A 30B 30Bj1 37K 42R 42Rb 44L 44Lc 48L 56F 56Fa 56Fs 56Fv 65A 65Ai 65D 65Df 65Dg 65Ds 65Dv 65F 65Fr 65Fp 65Fz 70C 70Ce 73A 73Ab 73Ad 73Ad2

Notes: An aestival species, uncommon. Flight activity only nocturnal.

Acknowledgement:

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References

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Figures from nature



Fig. 6 - *Acontia titania*, Van Prov., Bahcesaray, Upper Mukus Valley 1850m (65Am4), 11 6 2016, M. Kemal (Cesa)



Fig. 7 - *Agrochola humilis*, captured by a spider, Van Prov., Bahçesaray, Water Bottling Factory 1570m (65Aö), 23 10 2016, M Kemal (Cesa)



Fig. 8 - *Chloantha hypericii*, Van Prov. Bahçesaray, Paşaköy 1580m (65Ai), 3 6 2016, M. Kemal (Cesa)



Fig. 9 - *Cleoceris scoriacea*, Van Prov., Bahçesaray, Upper Mukus valley 1850m (65Am4) 2 10 2016, M Kemal (Cesa)



Fig. 10 - *Desertoplusia colornata*, Van Prov. Bahçesaray, Krapet Pass 2820m (65Aba), 7 8 2016, M. Kemal (Cesa)



Fig. 11 - *Dichagyris amoena*, Van Prov., Bahçesaray, Upper Mukus valley 1850m (65Am4) 3 10 2016, M Kemal (Cesa)

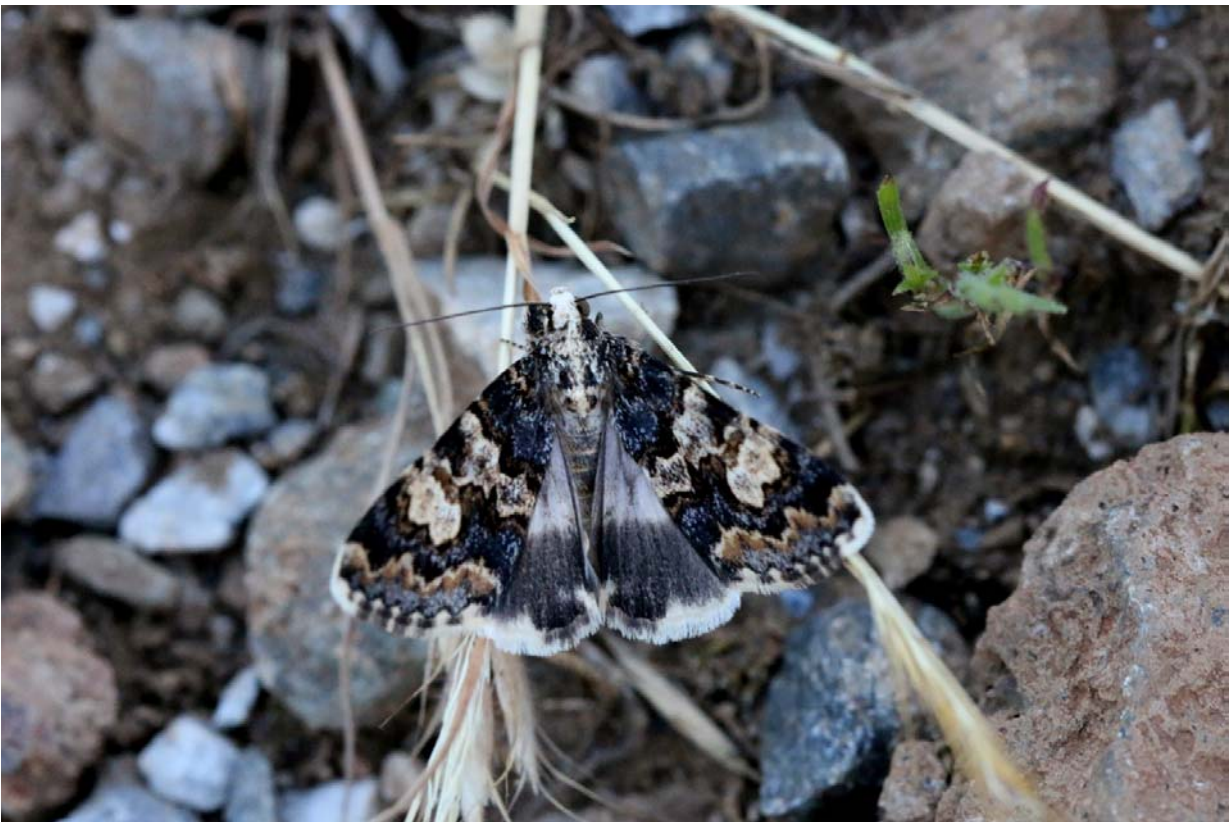


Fig. 12 - *Drasteria saisani*, Van Prov., Bahçesaray, Upper Mukus valley 1780m (65Am1) 13 6 2016, M Kemal (Cesa)



Fig. 13 - *Episema tersa*, Van Prov., Bahçesaray, Upper Mukus valley 1850m (65Am4) 3 10 2016, M Kemal (Cesa)



Fig. 14 - *Eublemma ostrinum*, Van Prov., Bahçesaray, Upper Mukus Valley 1780m (65Am1), 13 6 2016, M.Kemal (Cesa)



Fig. 15 – *Eublemma polygrammum*, Van Prov. Bahçesaray, Upper Mukus valley (65Am4), 25 6 2016, M. Kemal (Cesa)



Fig. 16 - *Eugnorisma kurdistan*, Van Prov., Bahçesaray, Paşaköy (65Ai) 2 10 2016, M Kemal (Cesa)



Fig. 17 - *Gortyna cervago*, Van Prov., Bahçesaray, Upper Mukus valley 1850m (65Am4) 3 10 2016, M Kemal (Cesa)



Fig. 18 - *Hypena munitalis*, Van Prov., Bahçesaray, Upper Mukus valley 1780m (65Am1) 13 6 2016, M Kemal (Cesa)



Fig. 19 - *Lygephila cracca*, Van Prov., Bahçesaray, Upper Mukus valley 1850m (65Am4) 11 6 2016, M Kemal (Cesa)



Fig. 20 - *Megalodes eximia*, Van Prov., Bahçesaray, Upper Mukus valley 1780m (65Am1) 13 6 2016, M Kemal (Cesa)



Fig. 21 – *Meganola gigantula*, Van Prov. Bahçesaray, Paşaköy 1580m (65Ai), 3 6 2016, M. Kemal (Cesa)

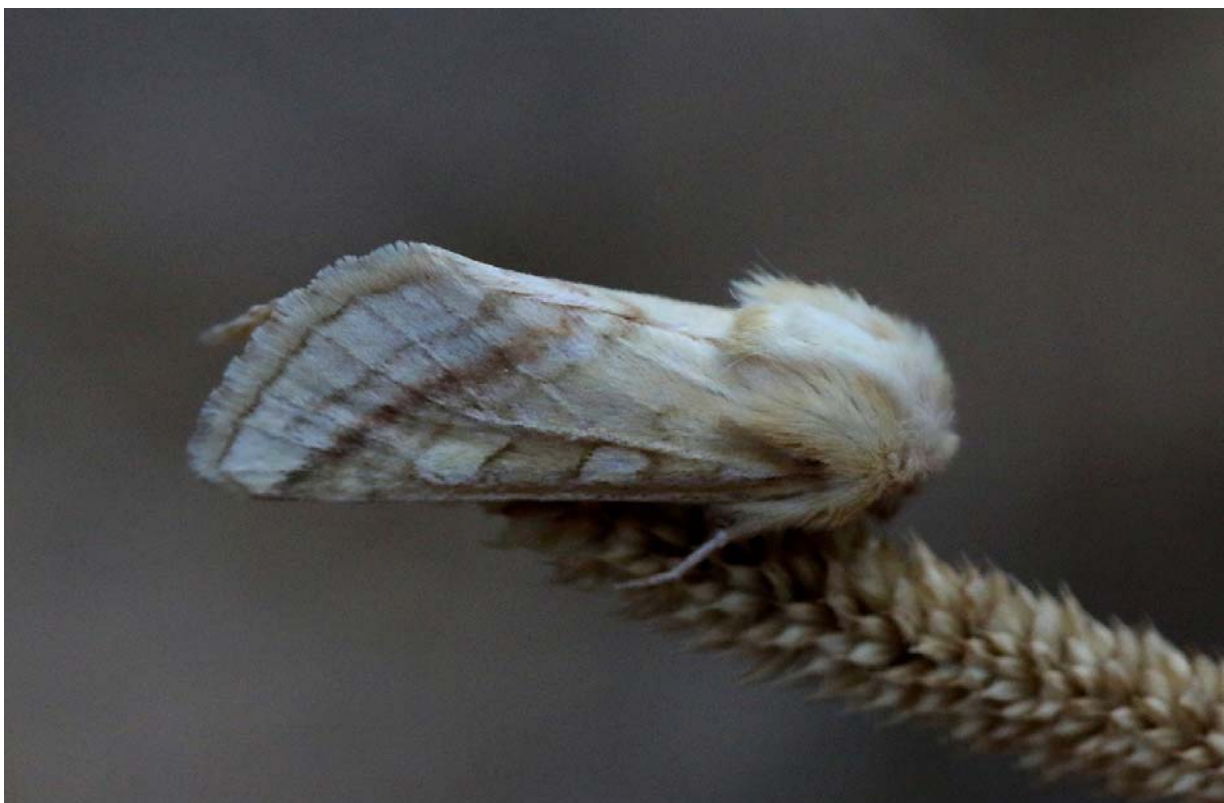


Fig. 22 - *Metopodicha ernesti* (det. P.Gyulai), Van Prov., Bahçesaray, Upper Mukus valley 1850m (65Am4) 3 10 2016, M Kemal (Cesa)



Fig. 23 – *Polymixis rufocincta* (full grown larva), Van Prov. Bahçesaray, Paşaköy (65Ai), 3 6 2016, M. Kemal (Cesa)



Fig. 24 – *Tholera hilaris*, Van Prov. Bahçesaray, Paşaköy 1580m (65Ai), 2 10 2016, M. Kemal (Cesa)

Figures of Male Genitalia



Fig. 25 - *Agrochola kindermanni*, GP2440, Van Prov., Bahçesaray, M Kemal (Cesa). Male genitalia and abdominal skin, with a pair scent organ.



Fig. 26 - *Cryphia receptricula*, GP2394, Van Prov., Bahçesaray (65Ai) 1600m, M Kemal (Cesa)



Fig. 27 - *Metopodicha ernesti*, GP2396, Van Prov. Bahçesaray Upper Mukus valley (65Am4) 1850m, 03.10.2016, M. Kemal (Cesa)



Fig. 28 - *Nycteola ravayana* f. *punctana*, GP2452, Van Prov., Bahçesaray, Spindaran, Kemal (Cesa). Male genitalia, with enlarged aedeagus tip and abdominal skin.



Fig. 29 - *Polymixis ivanchiki*, GP2439, Van Prov. Bahçesaray, M. Kemal (Cesa)

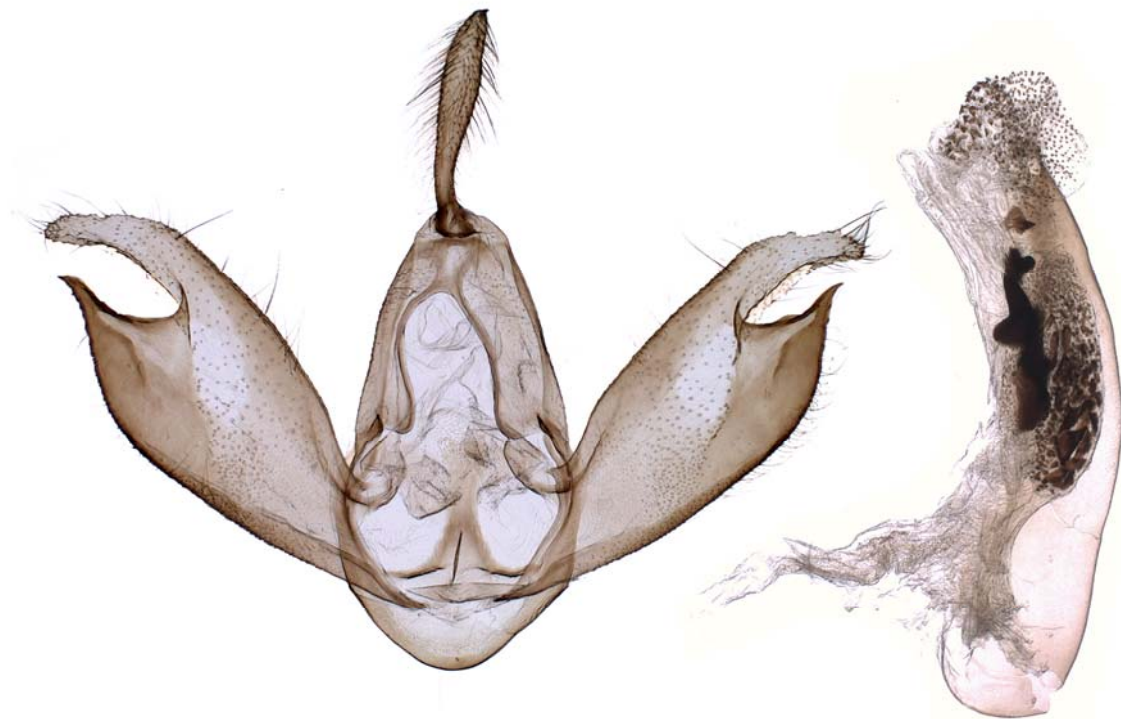
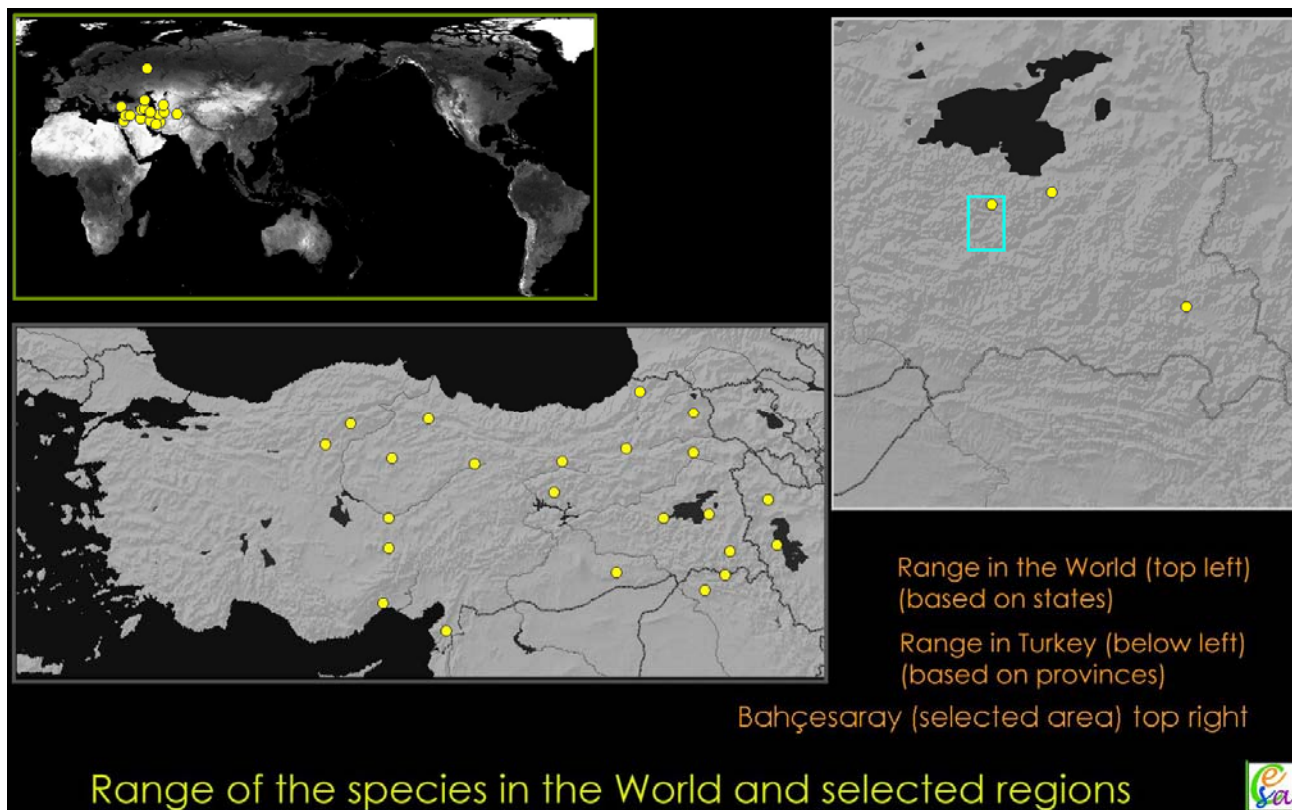
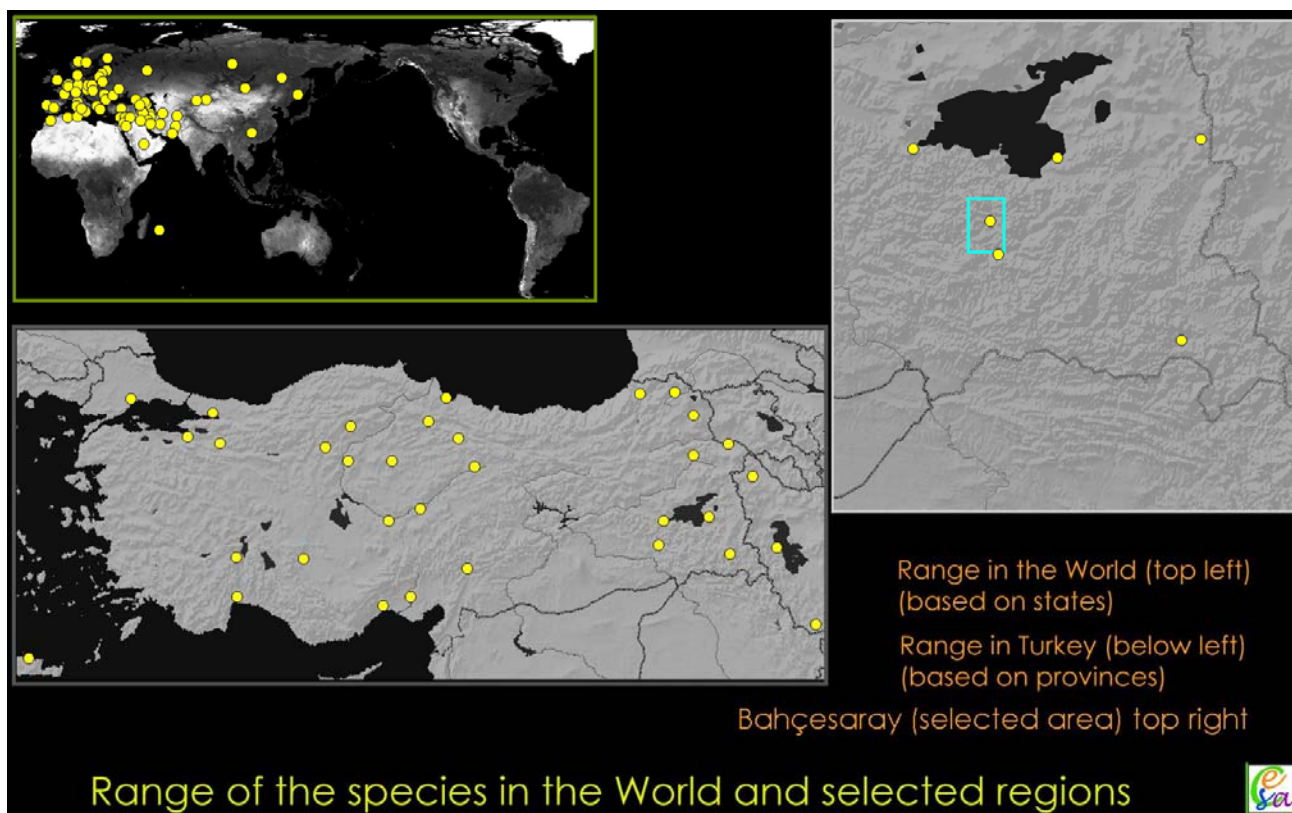


Fig. 30 - *Polypogon schwingenschussi*, GP2435, Van Prov. Bahçesaray Upper Mukus valley (65Am4) 1840m, 10 6 2016, M Kemal (Cesa)

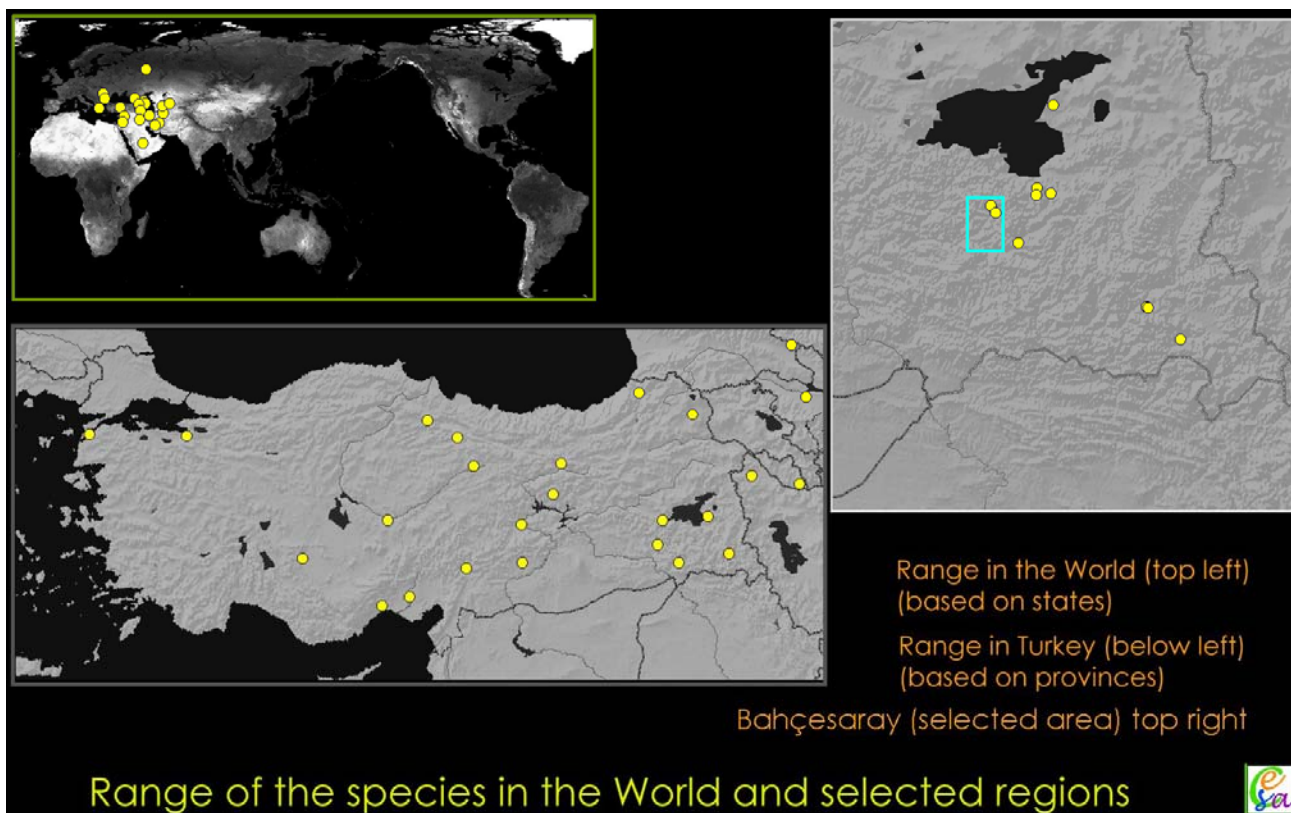
Maps



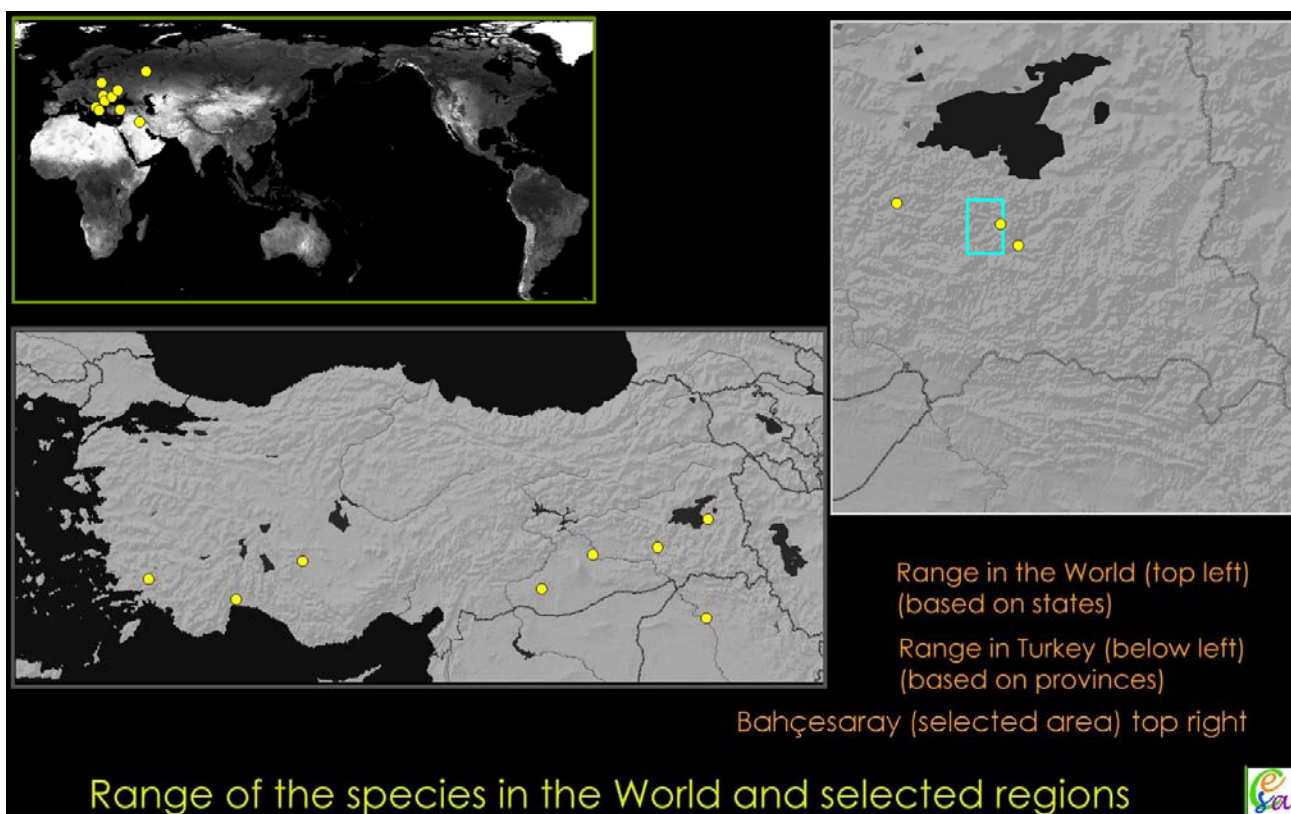
Map 1 - *Abrostola clarissa*



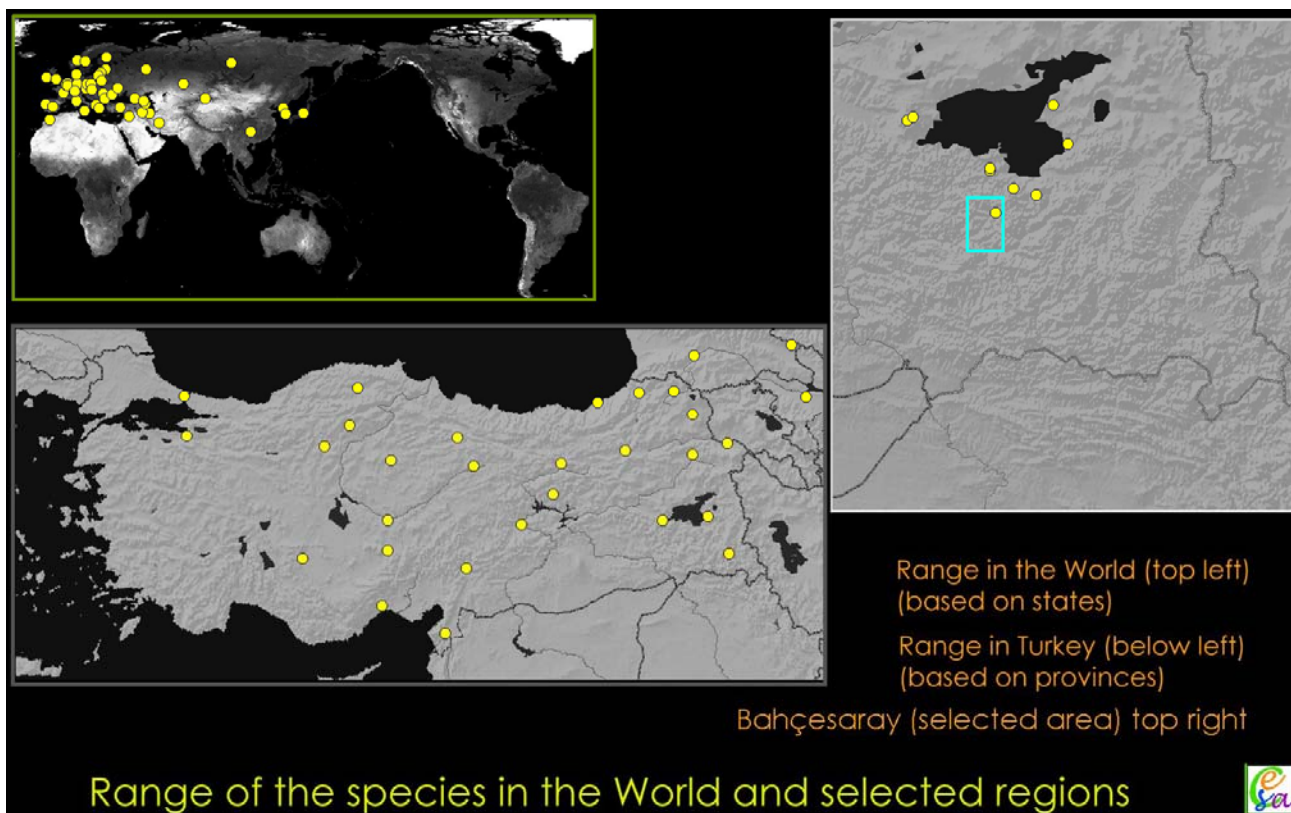
Map 2 - *Acontia (Emmelia) trabealis*



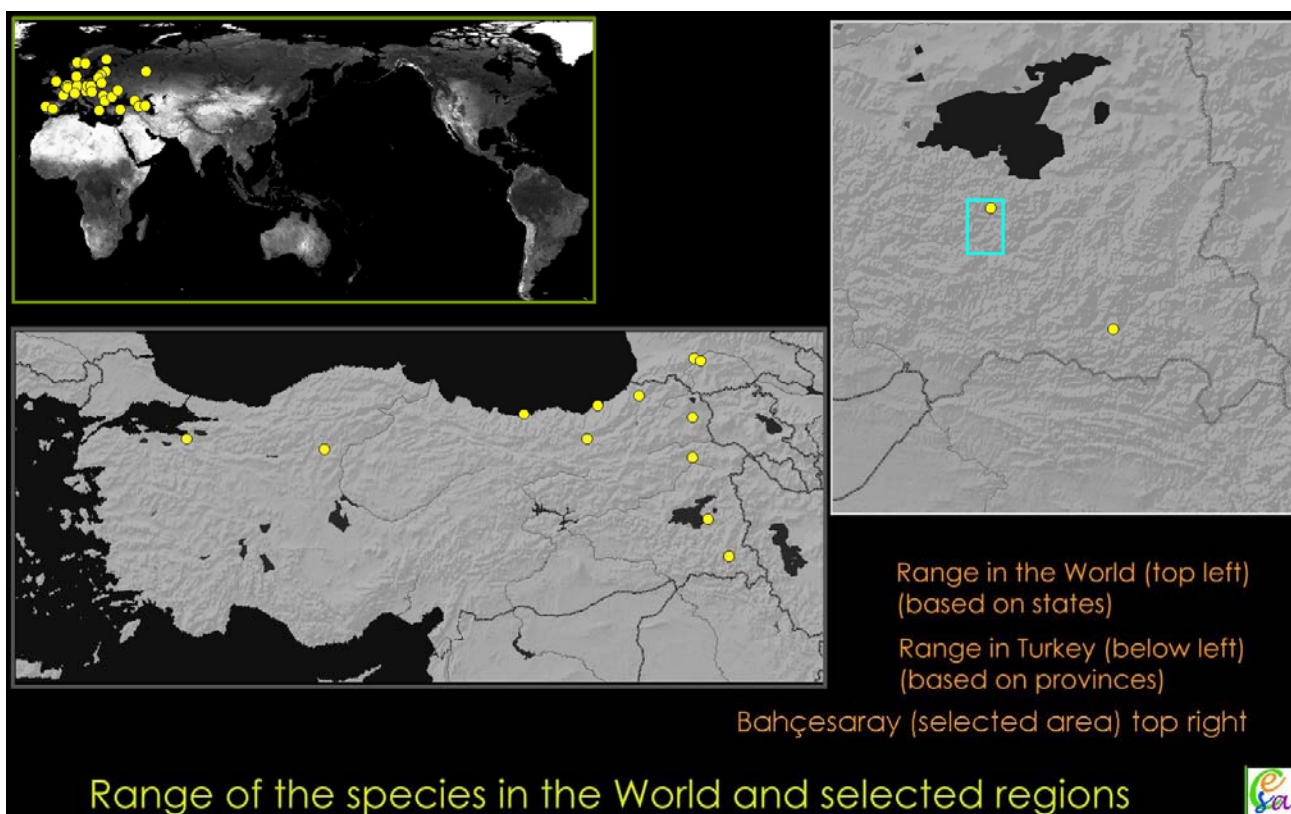
Map 3 - *Acontia (Uracontia) titania*



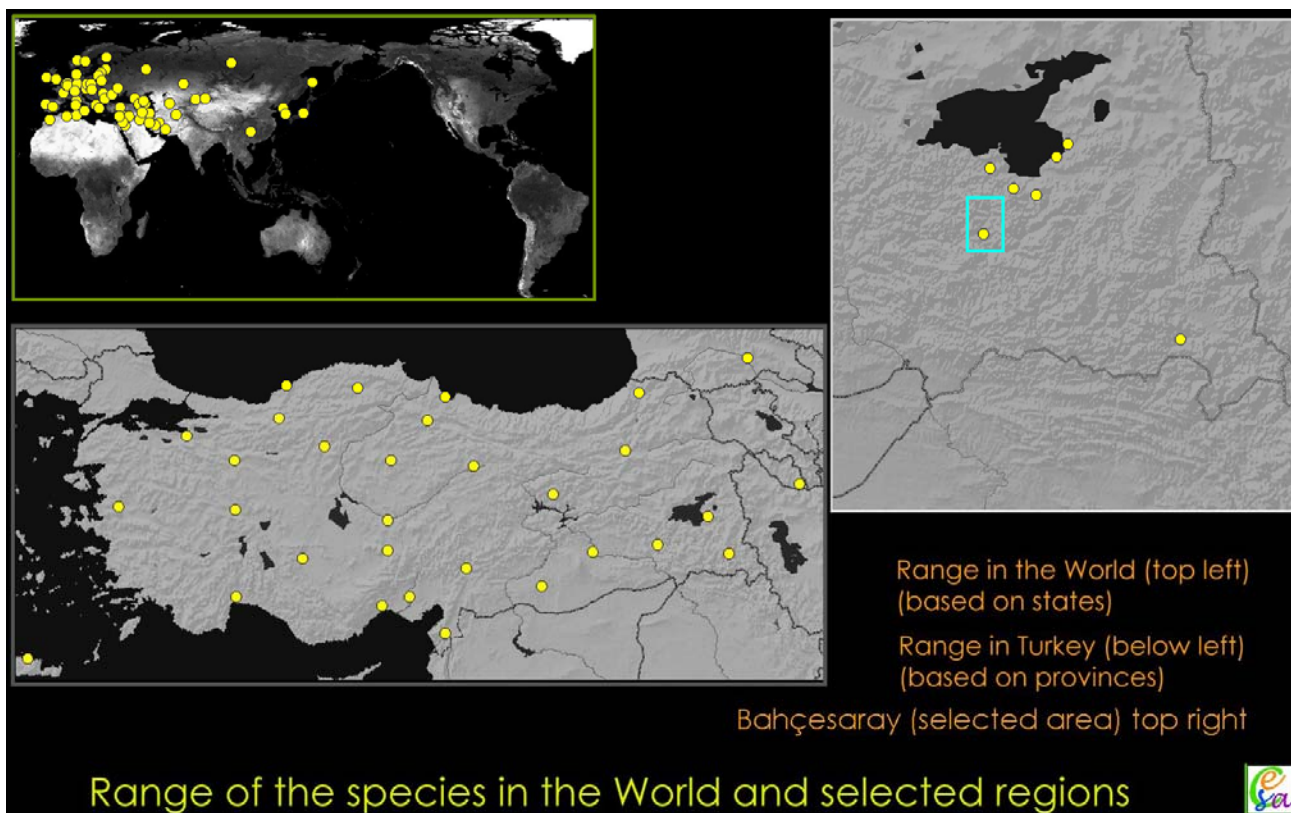
Map 4 - *Acontiola moldavicola*



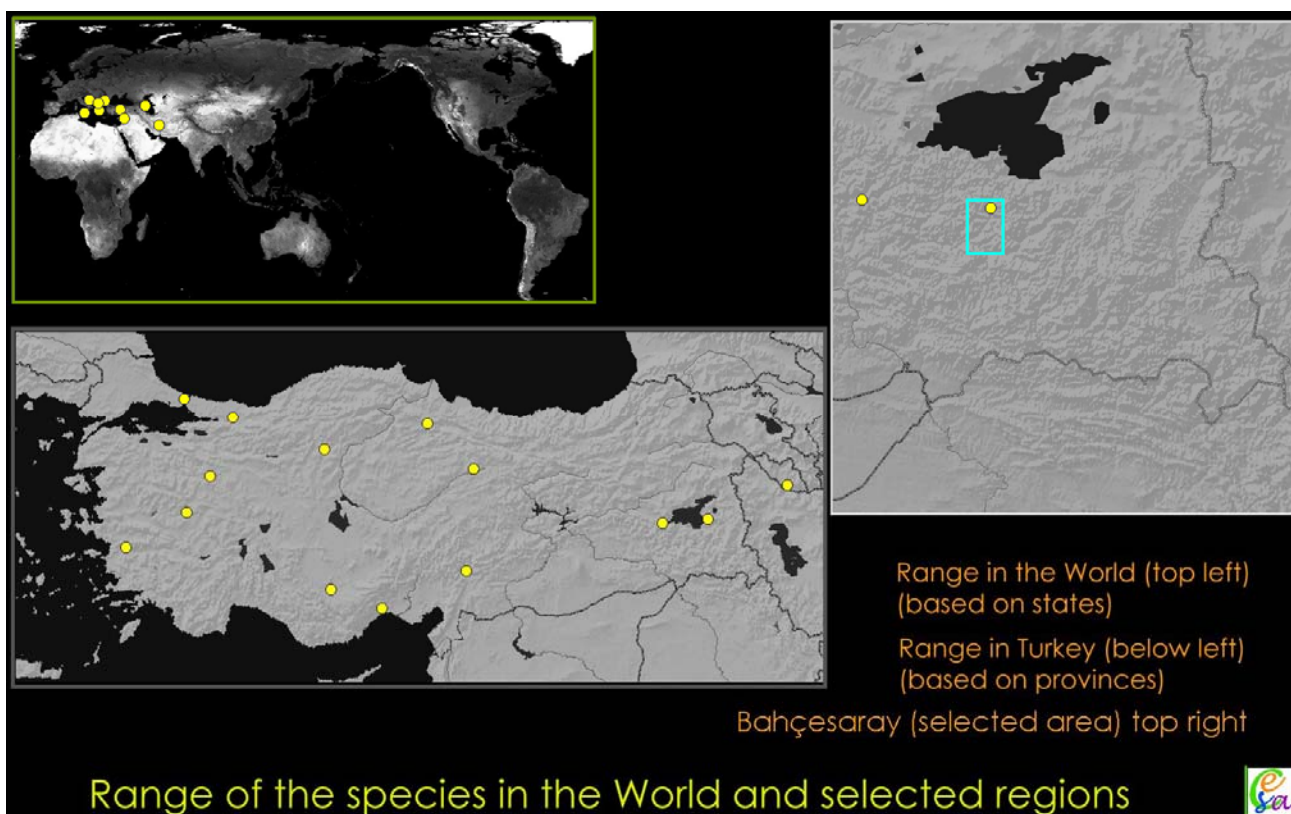
Map 5 - *Acronicta (Subacronicta) megacephala*



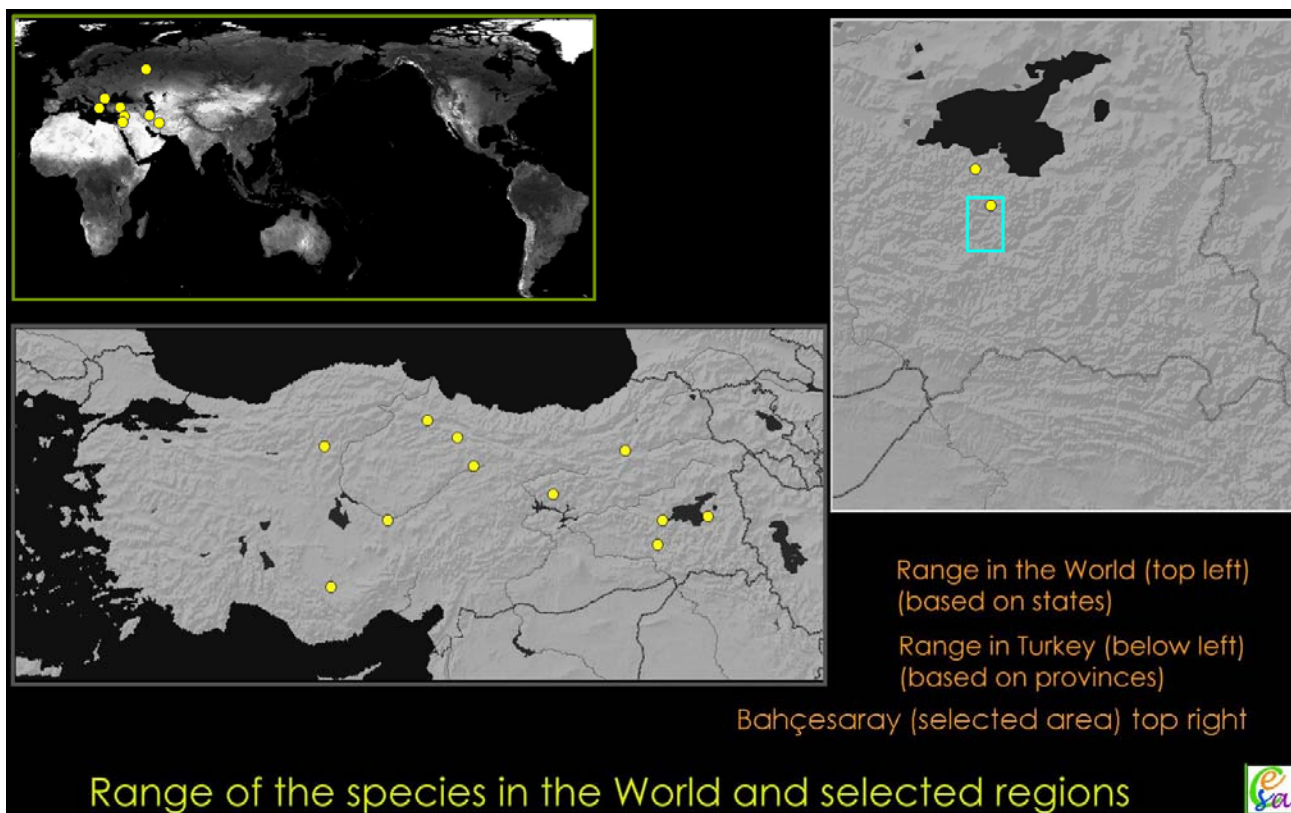
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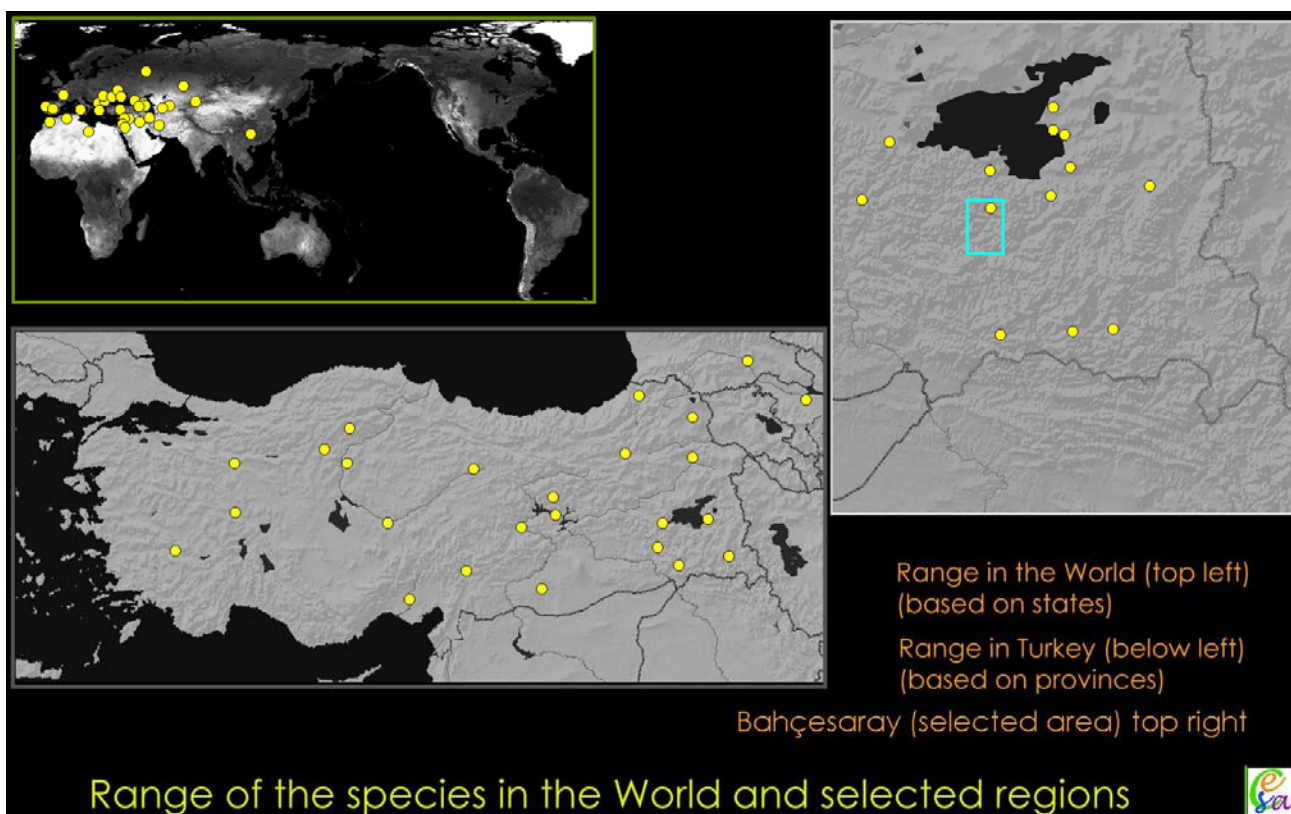
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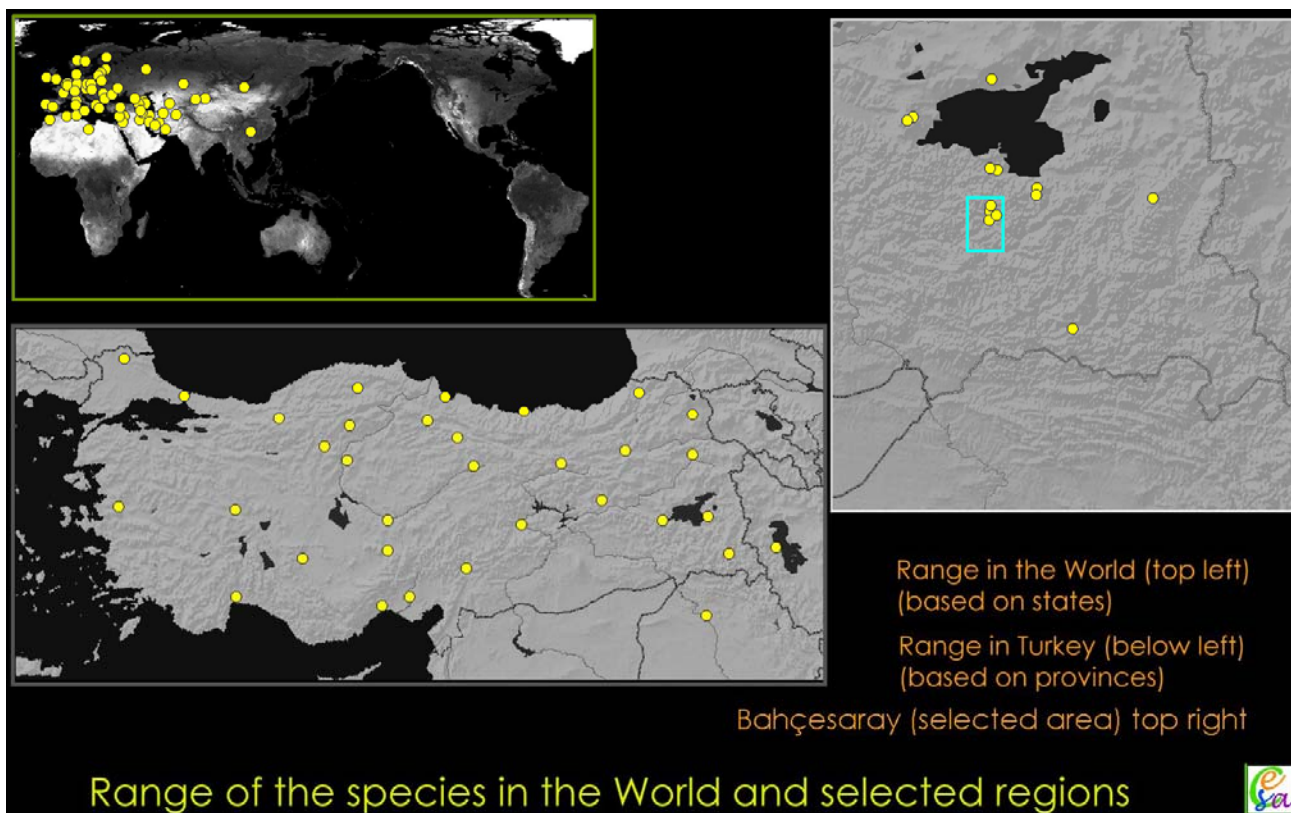
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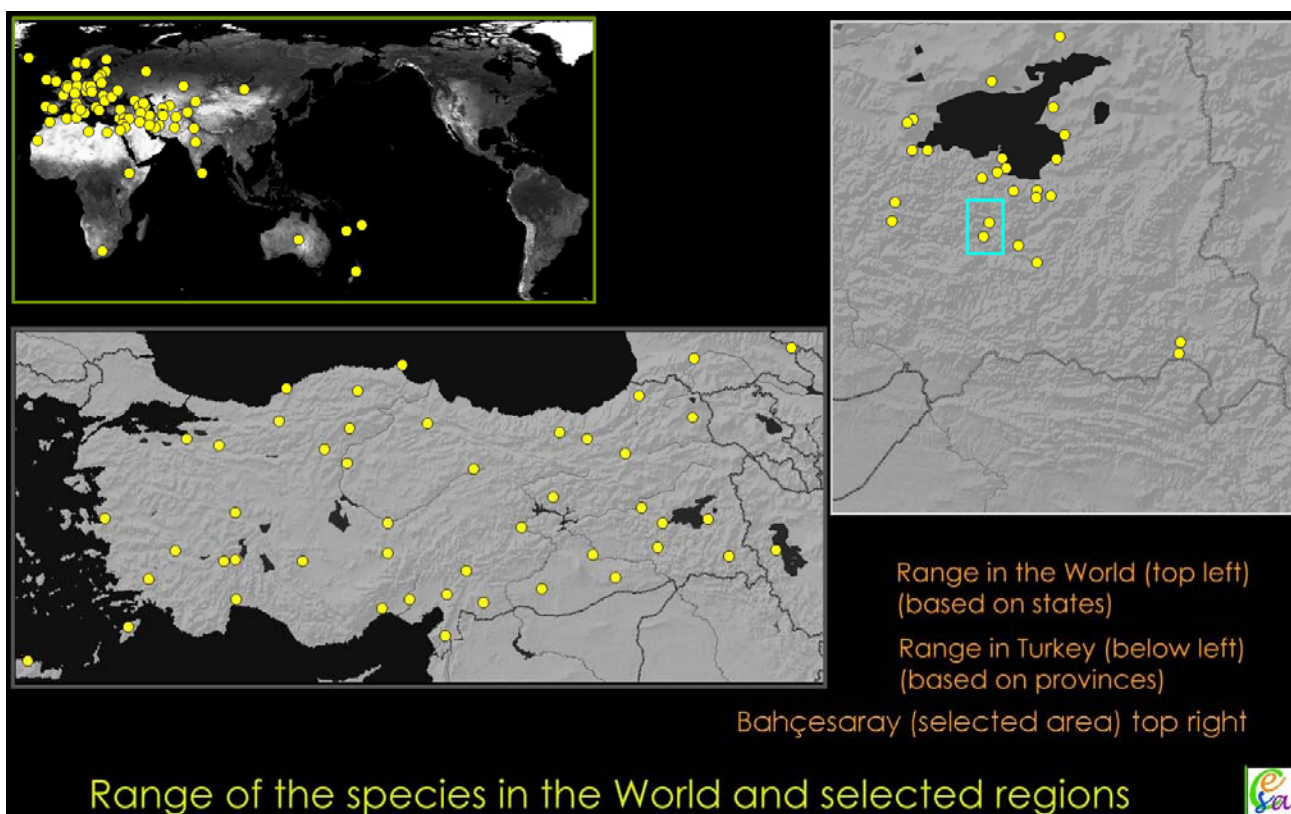
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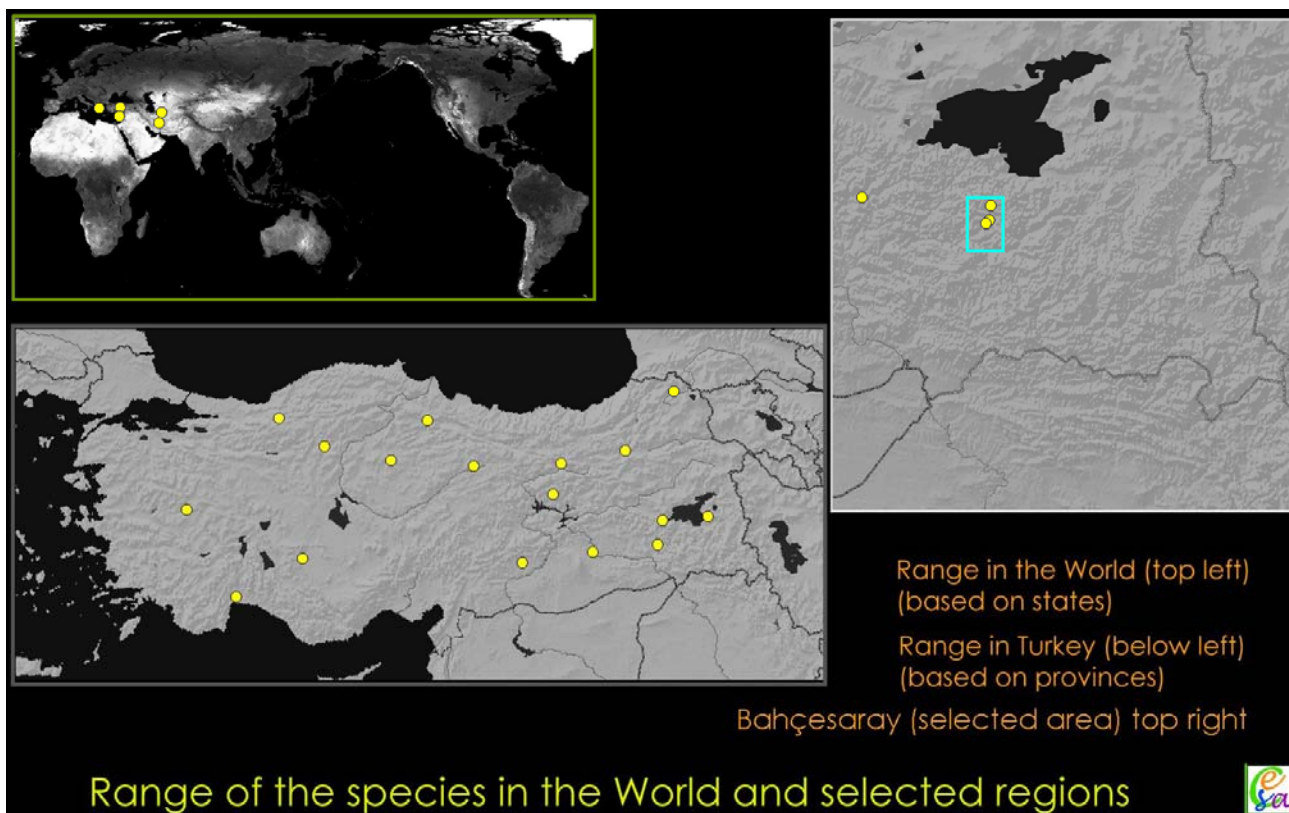
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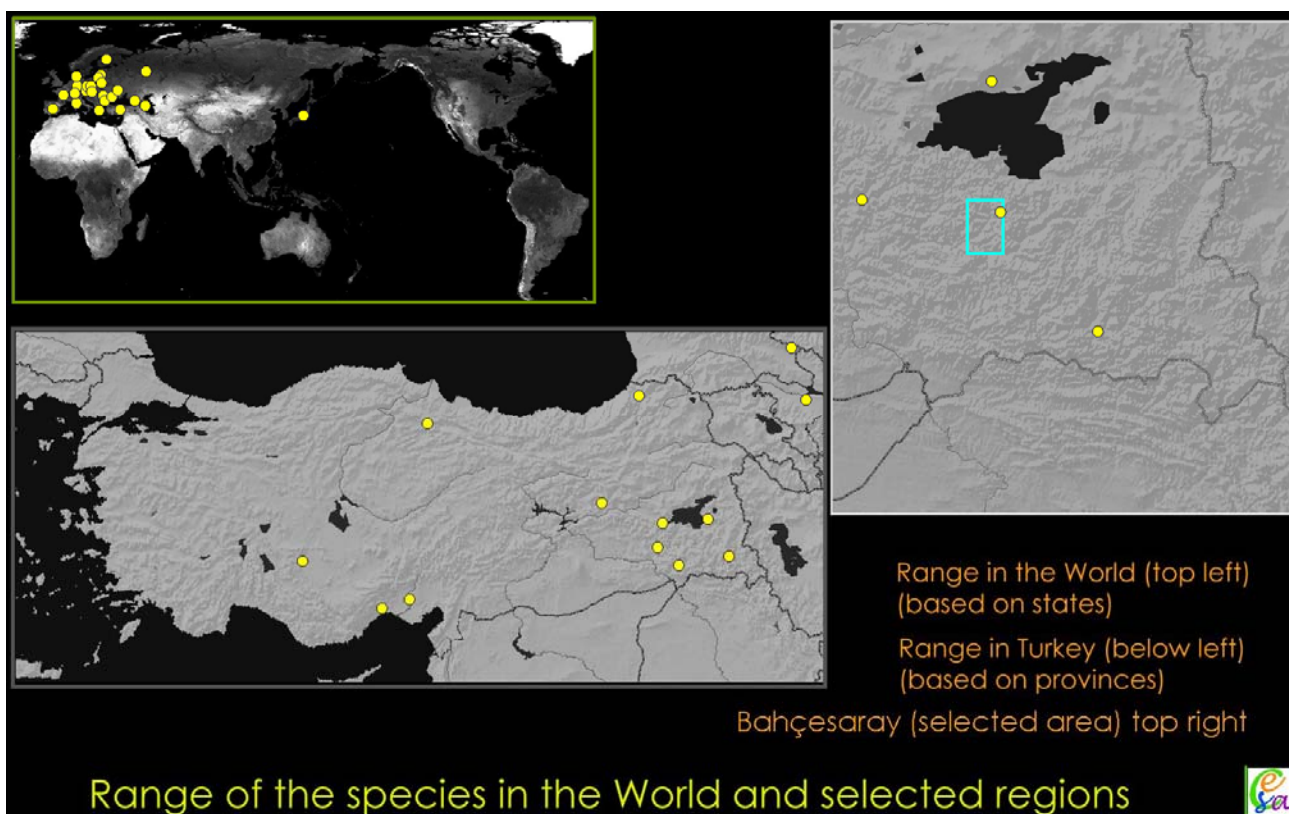
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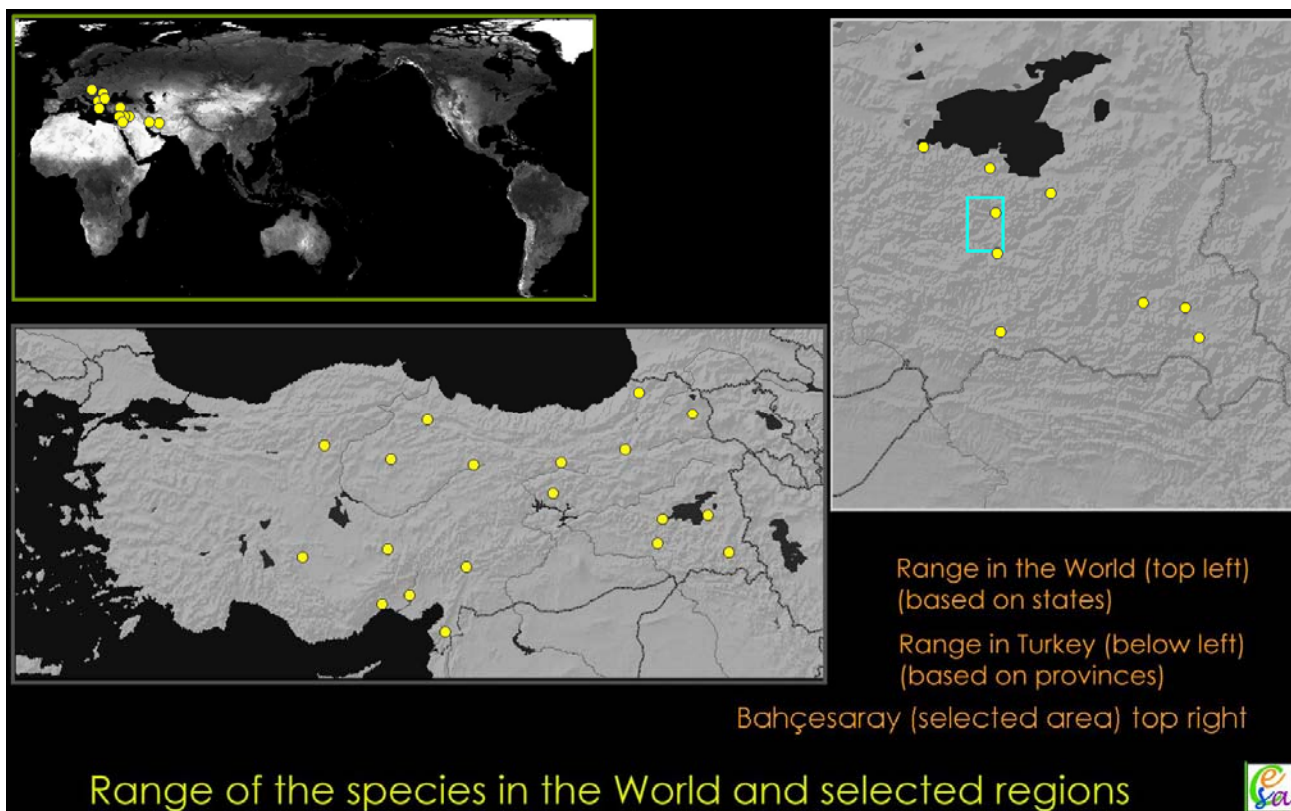
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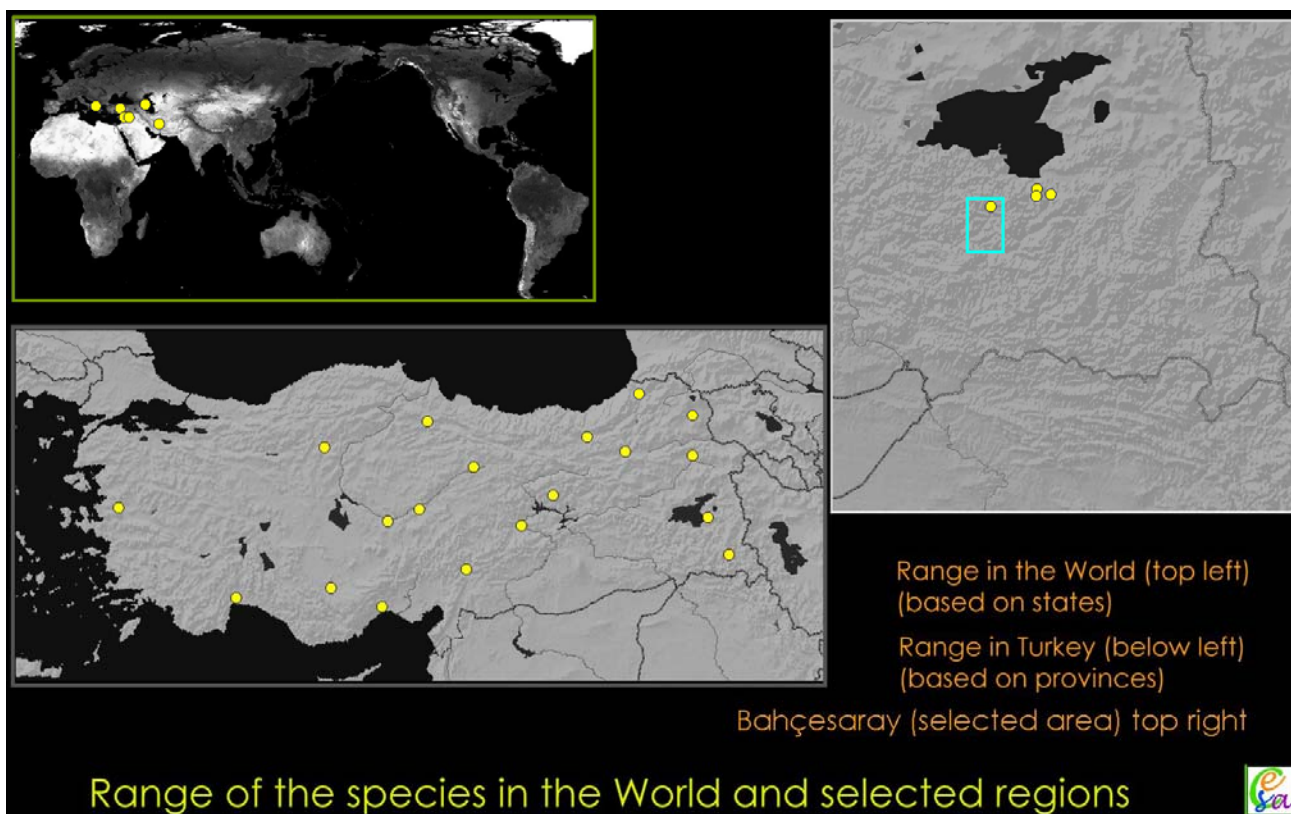
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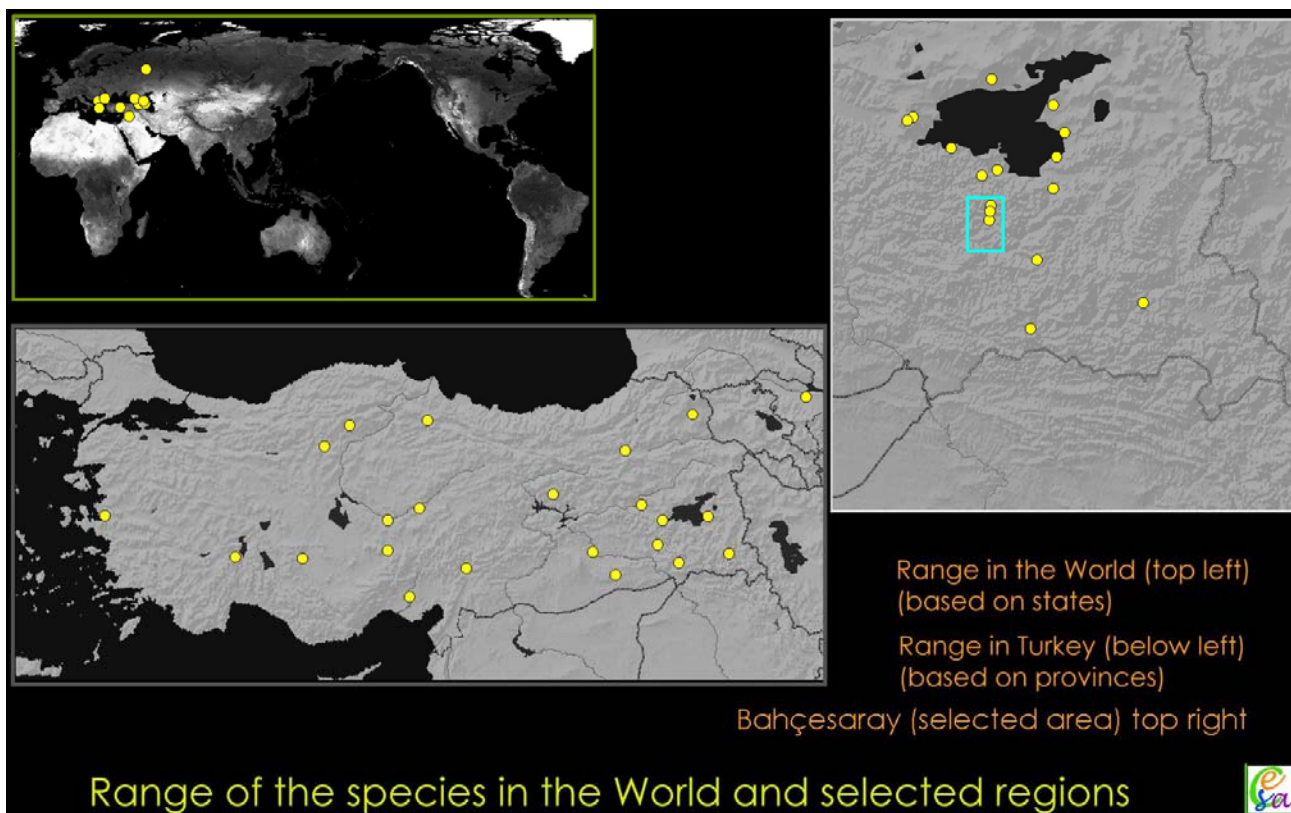
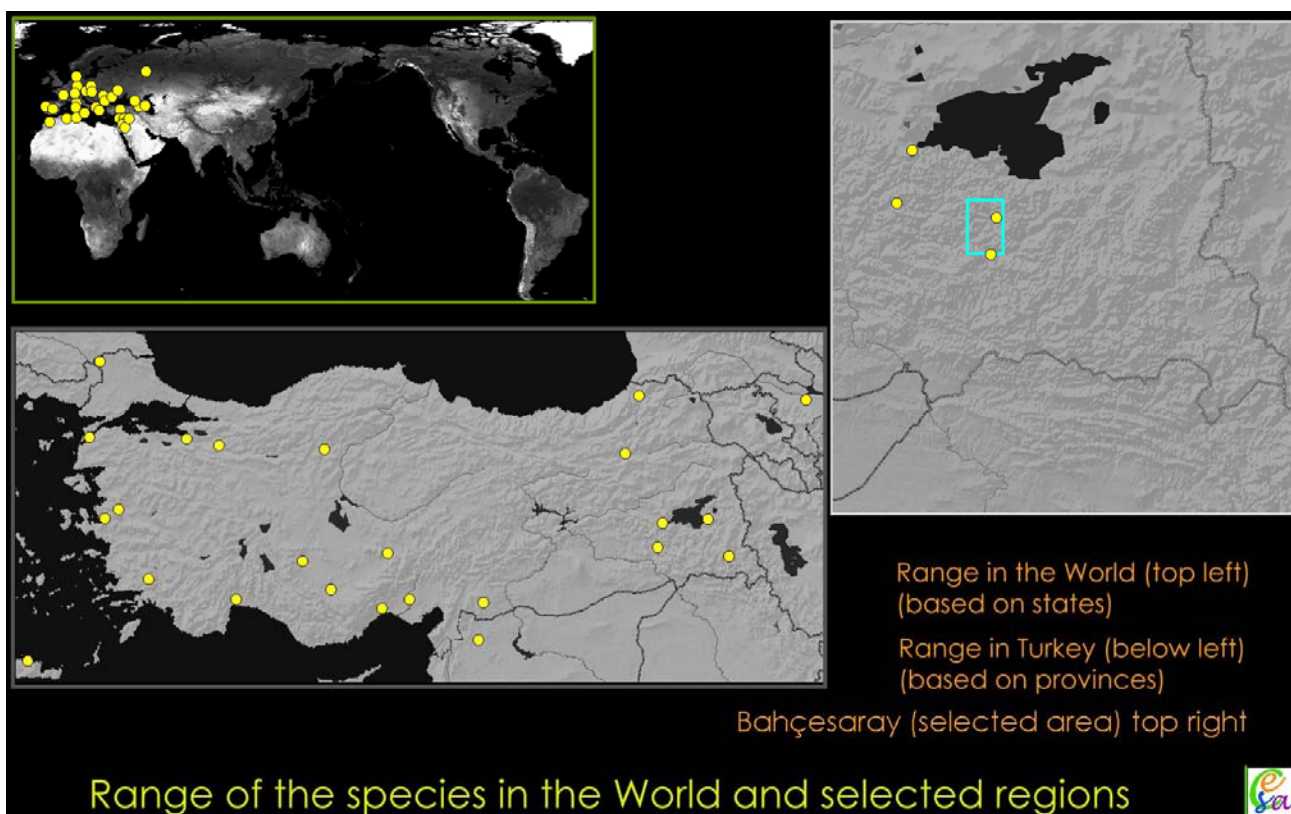
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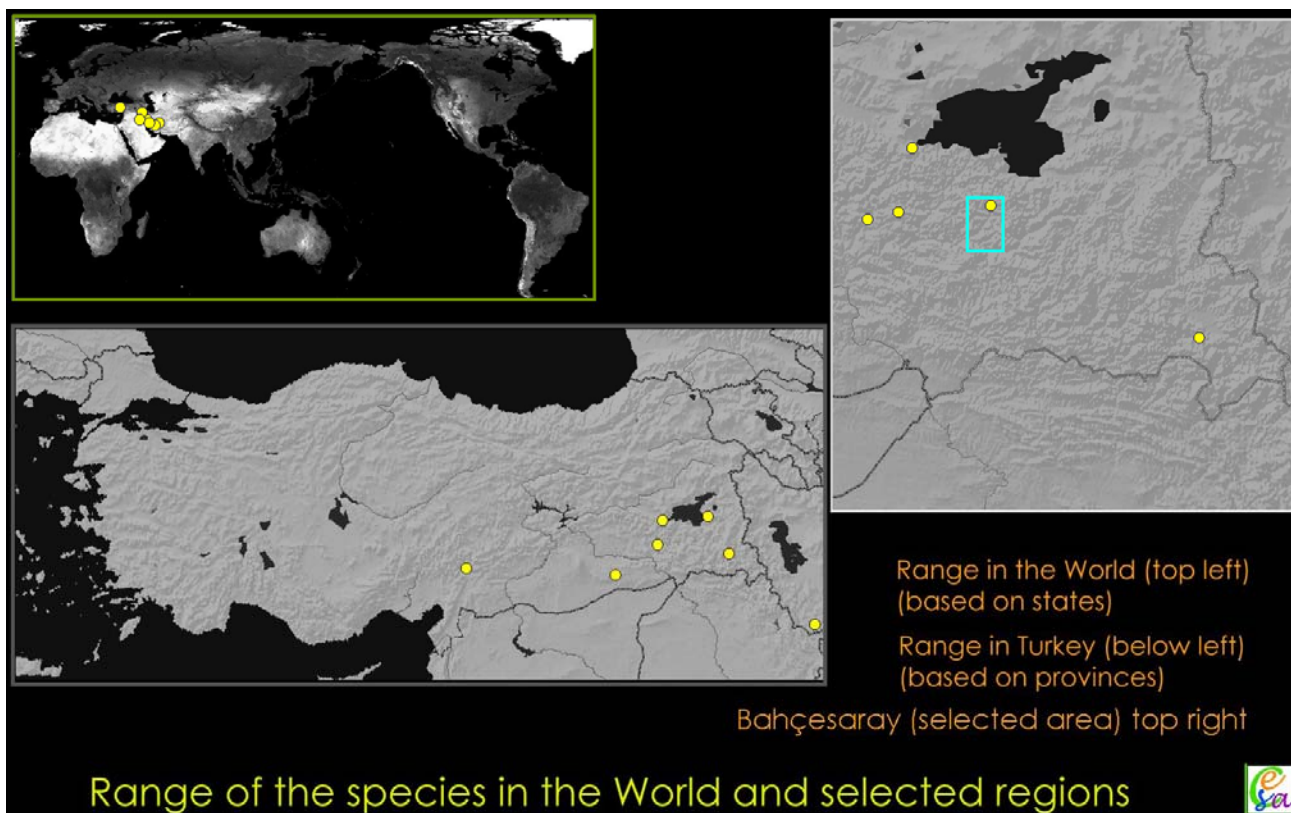


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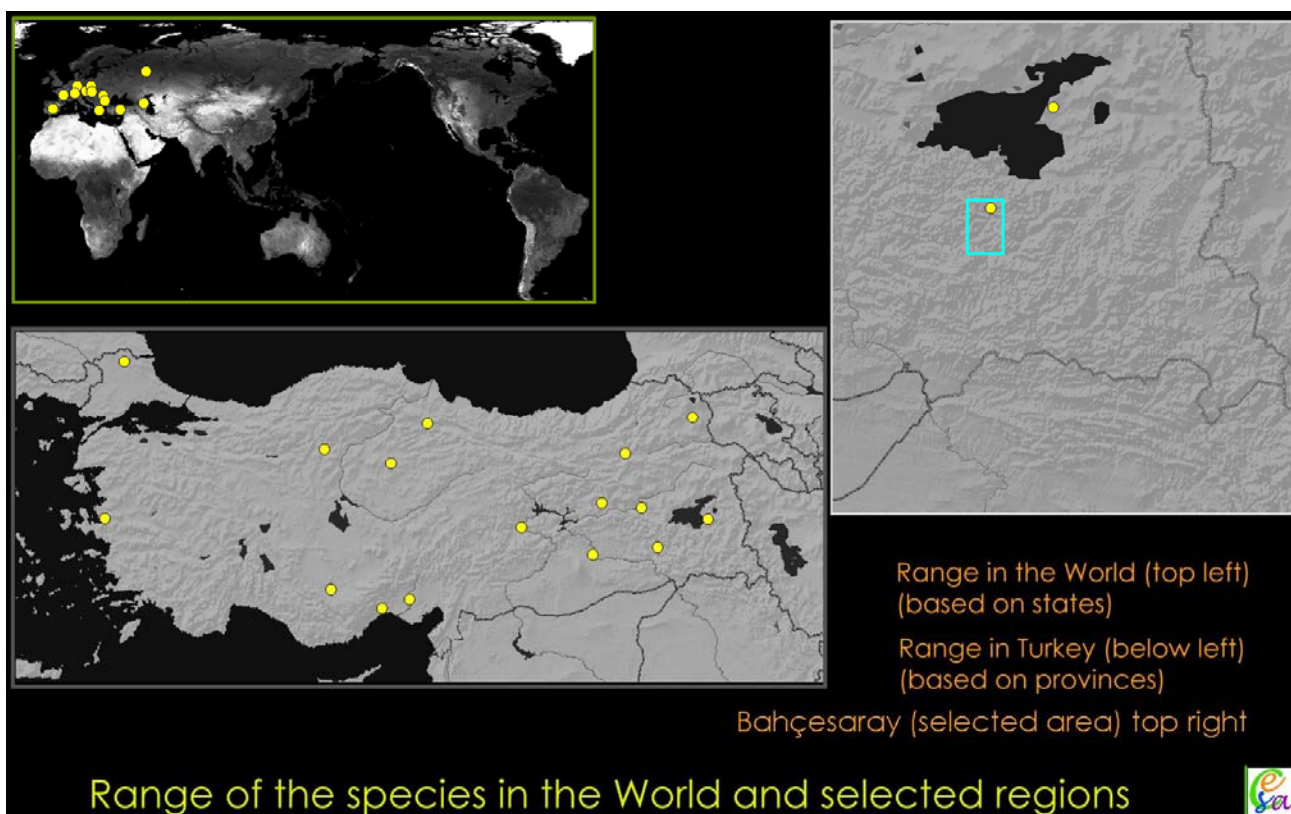


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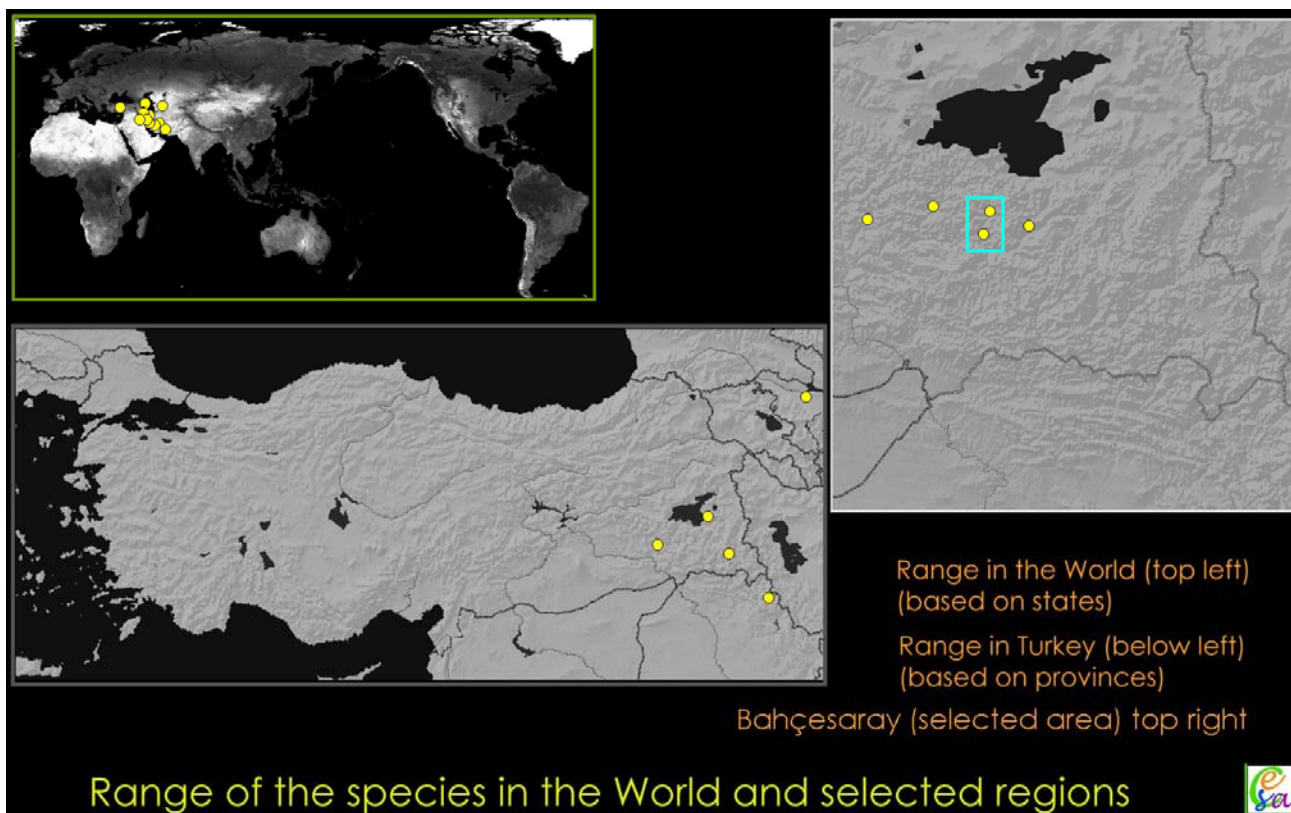
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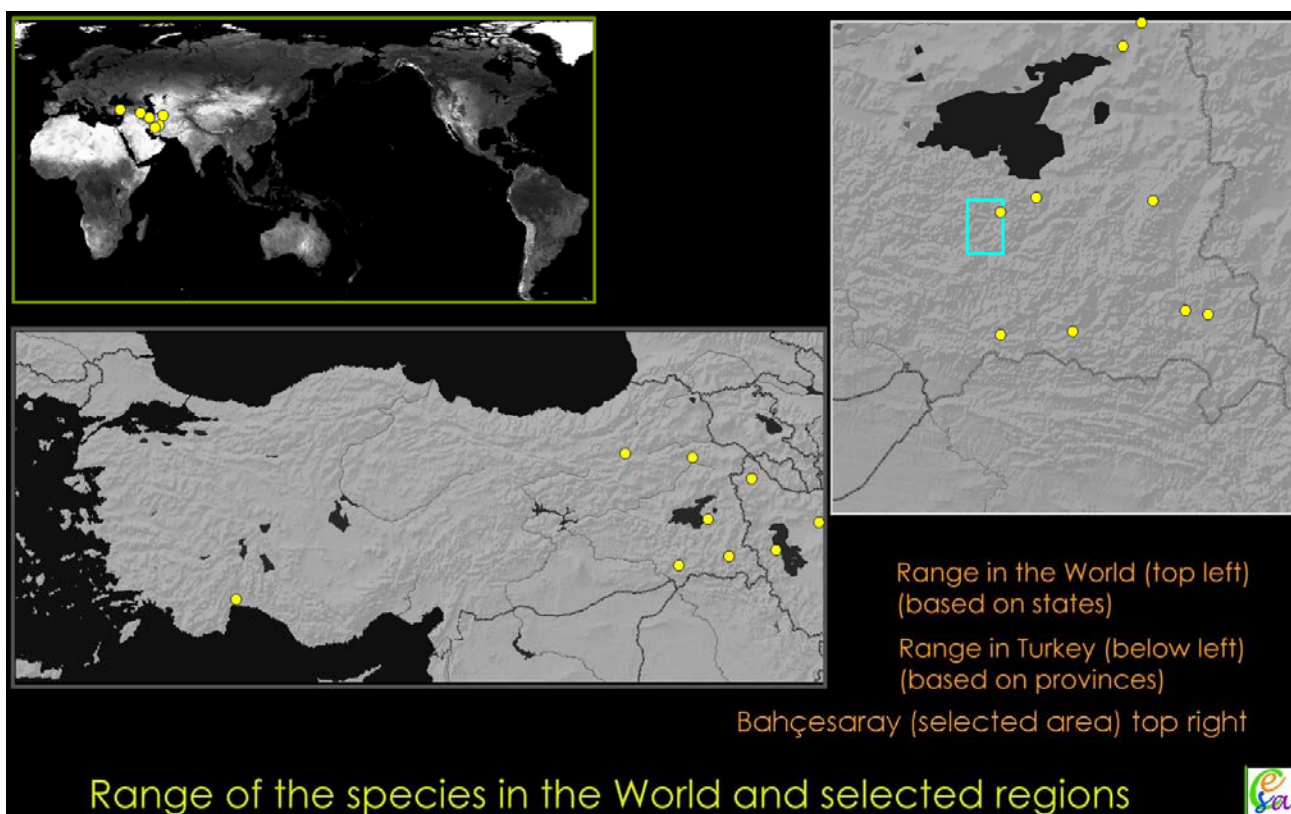
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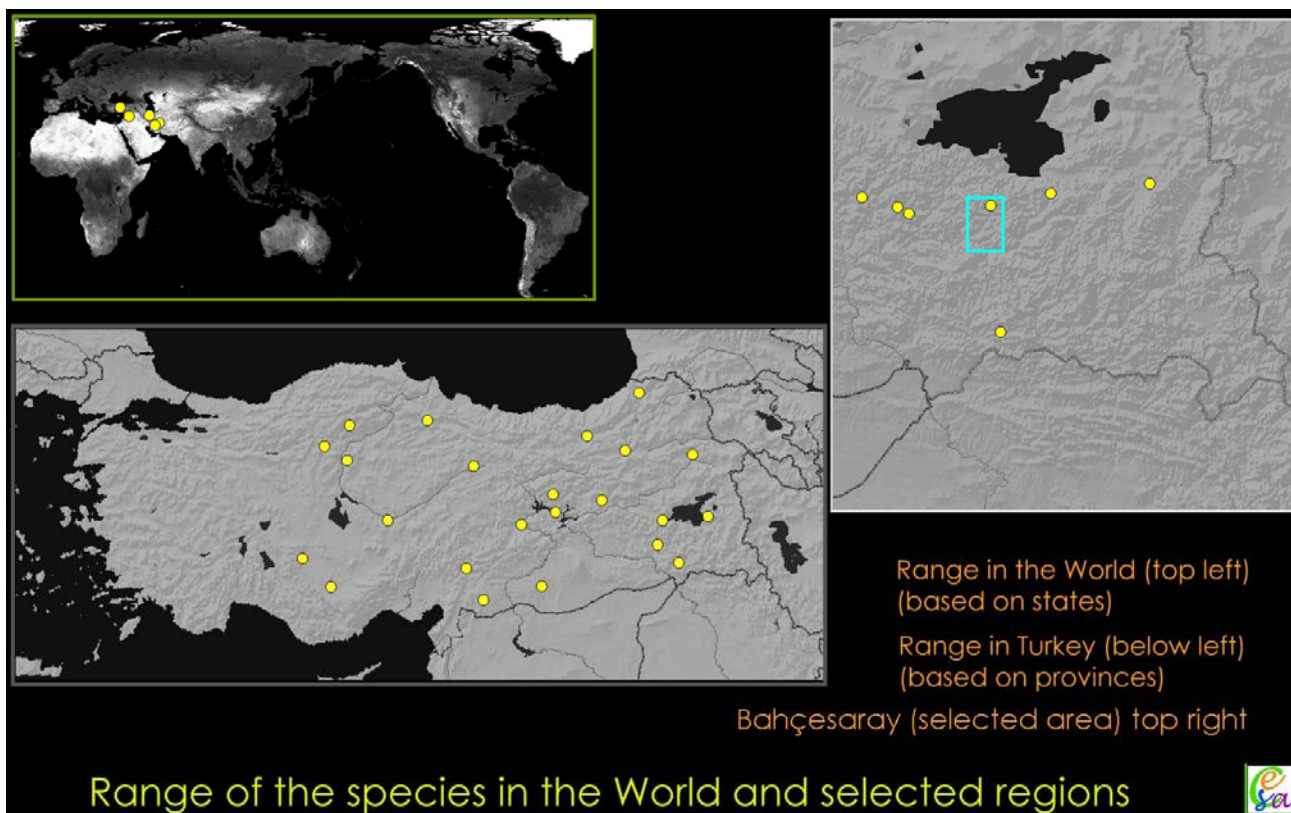
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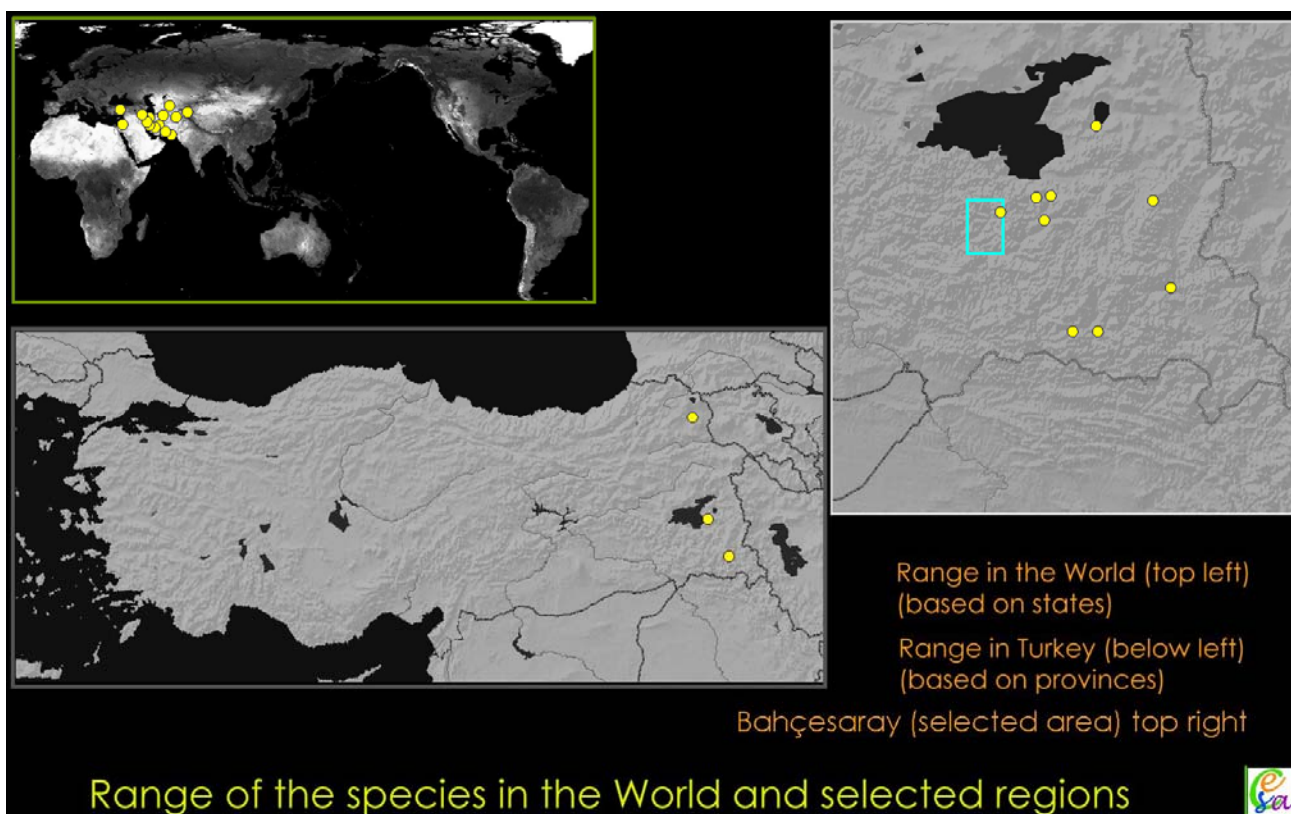
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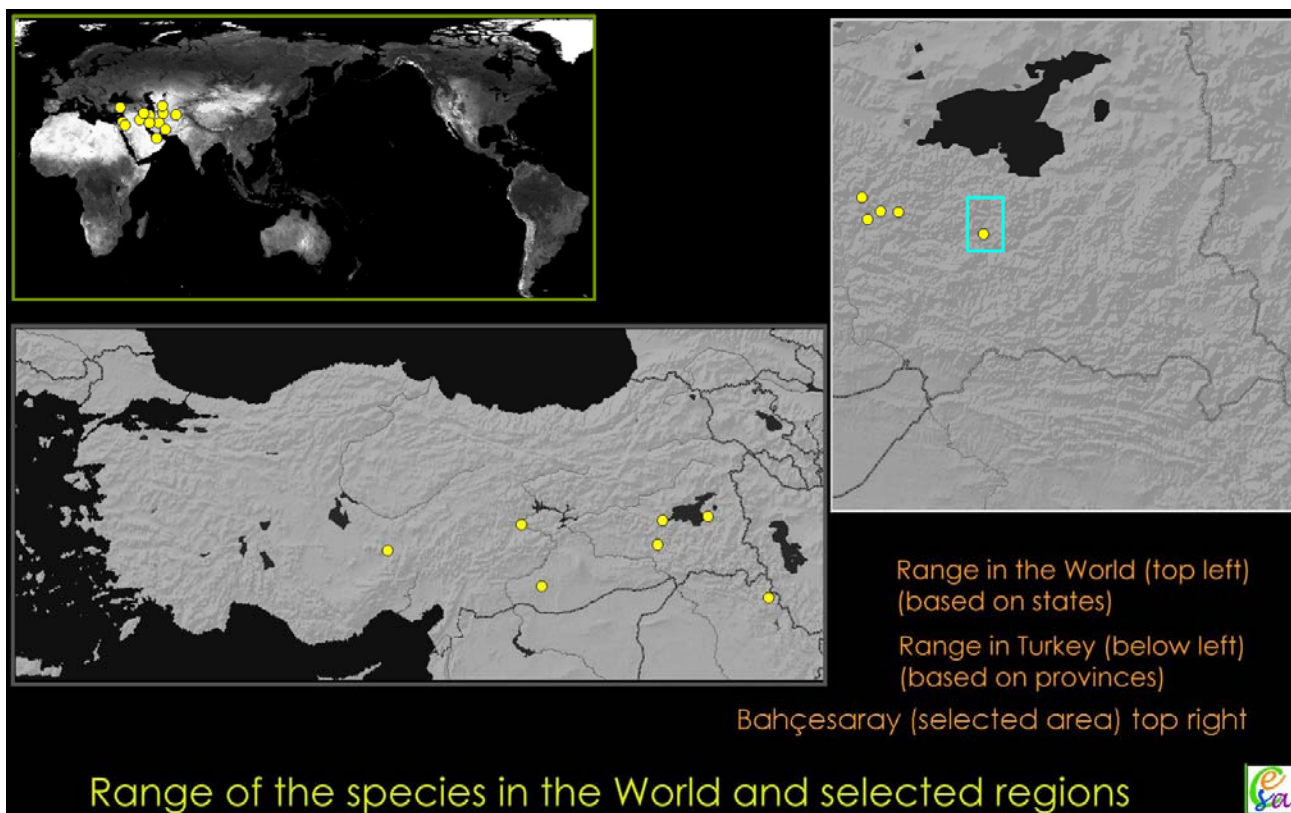
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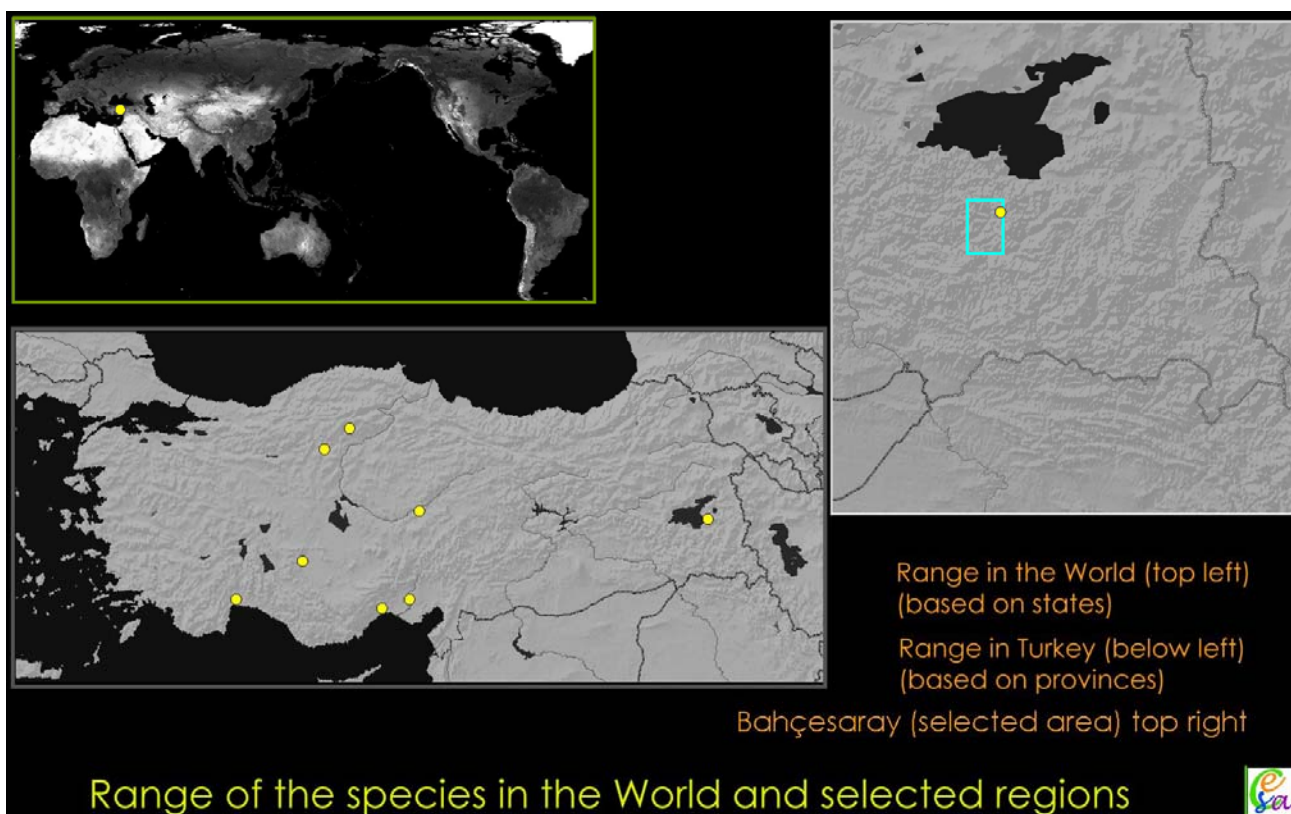
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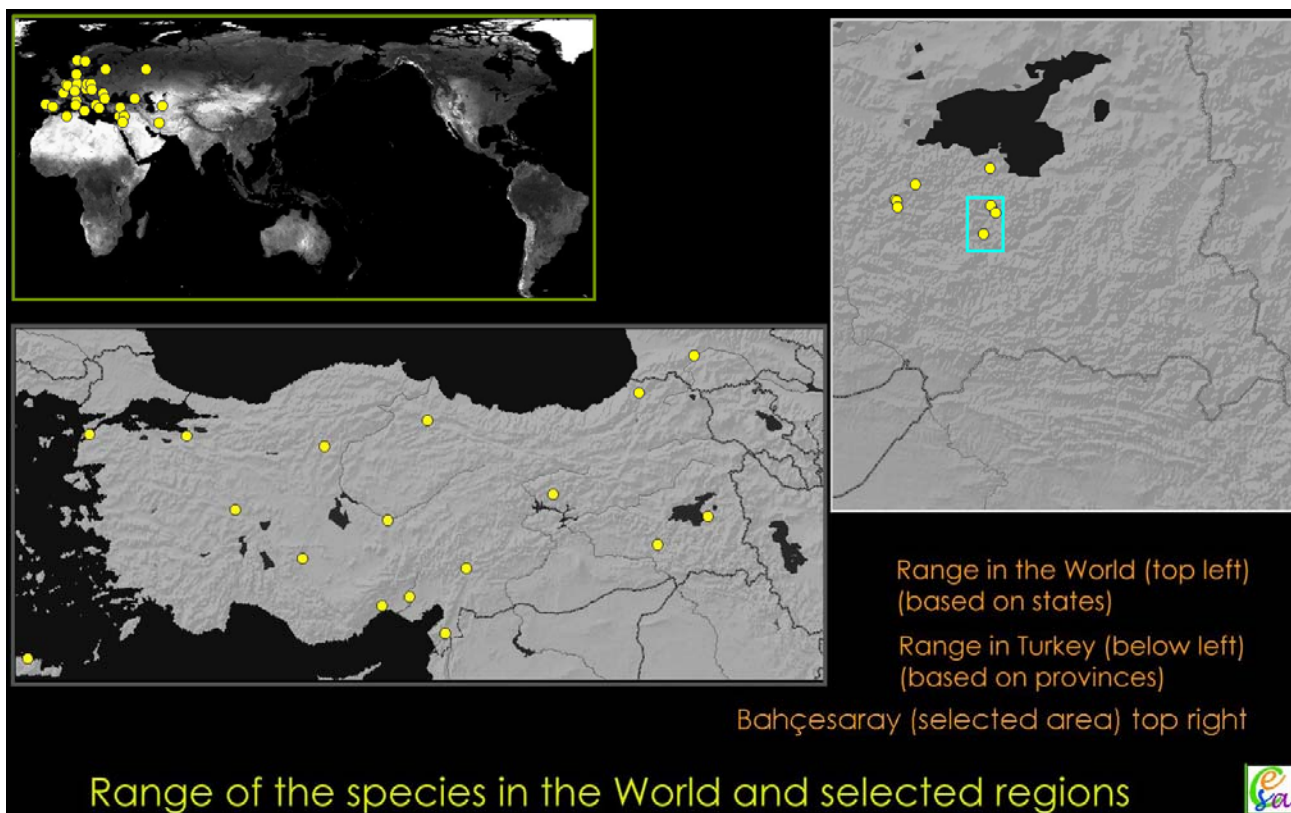
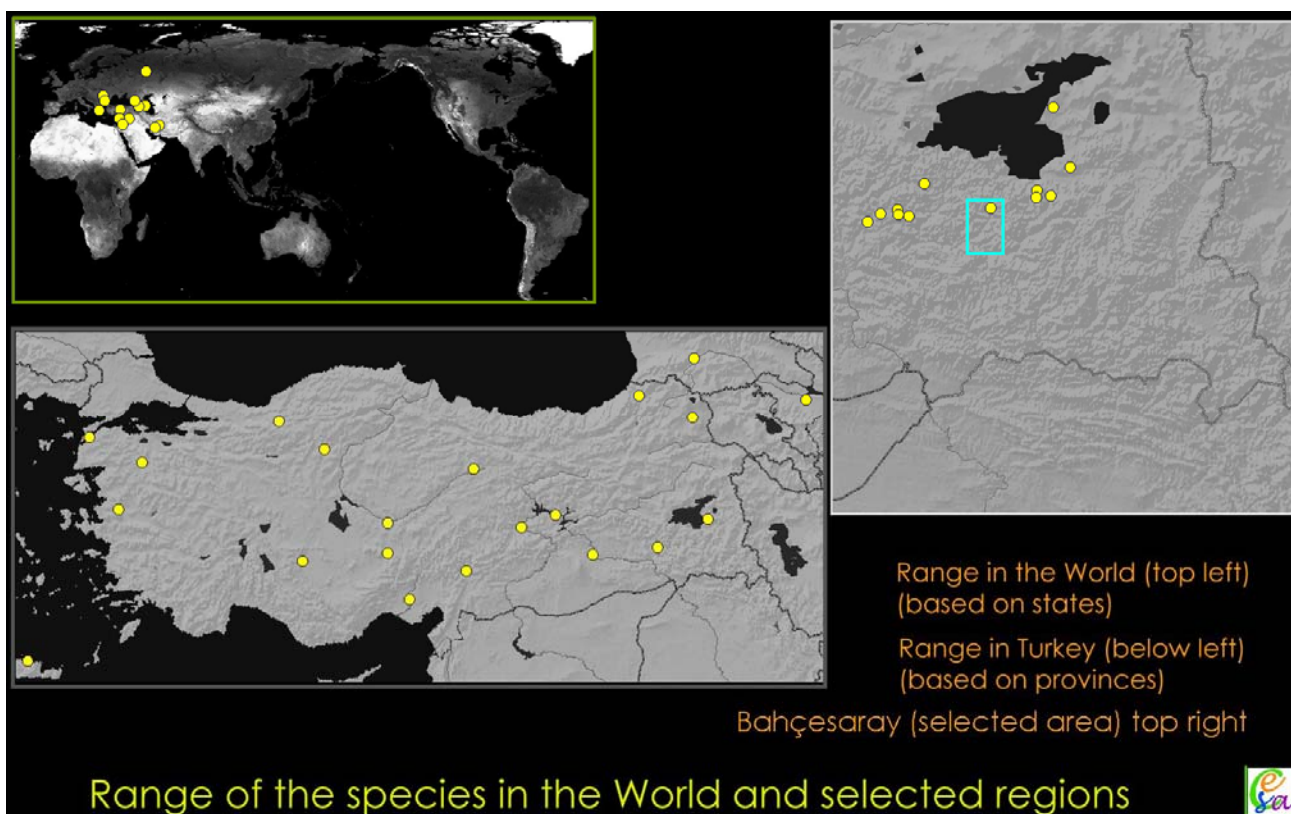
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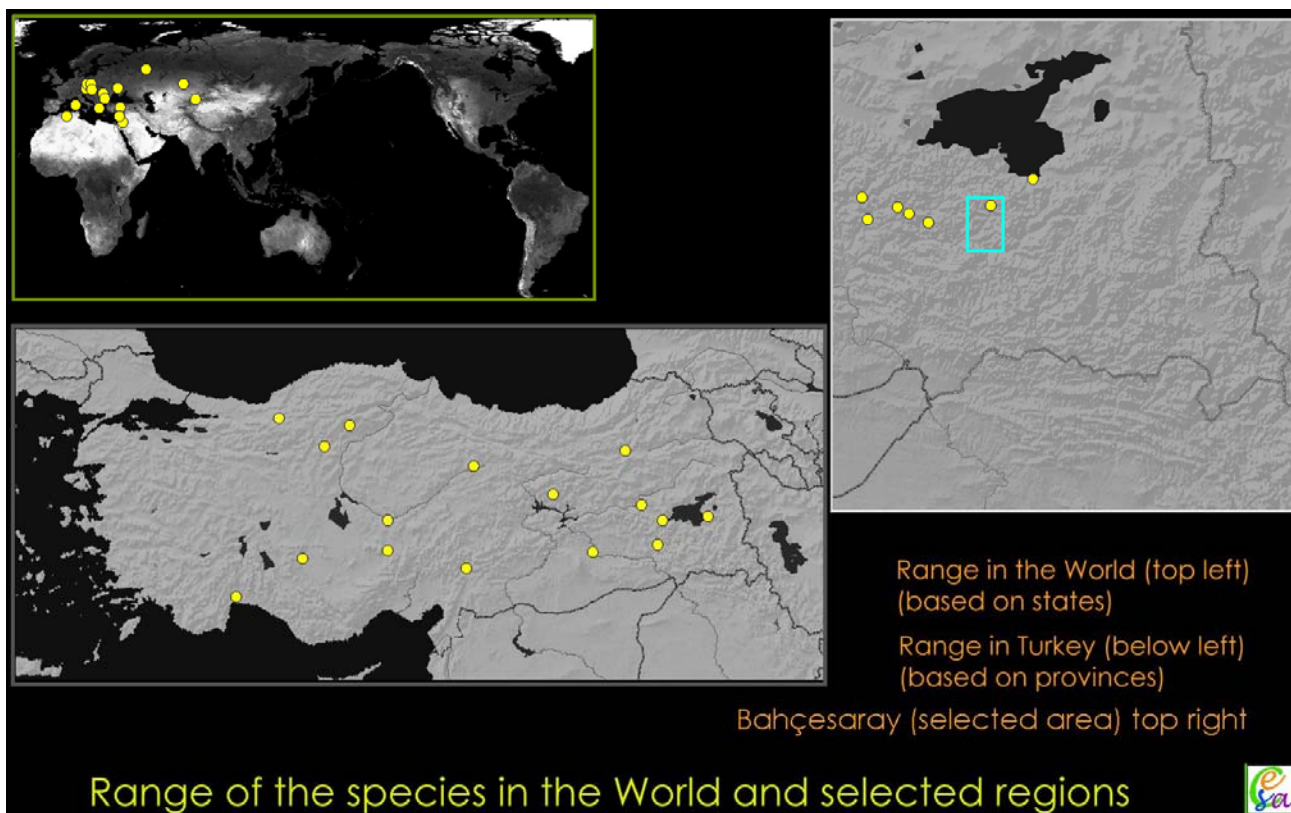
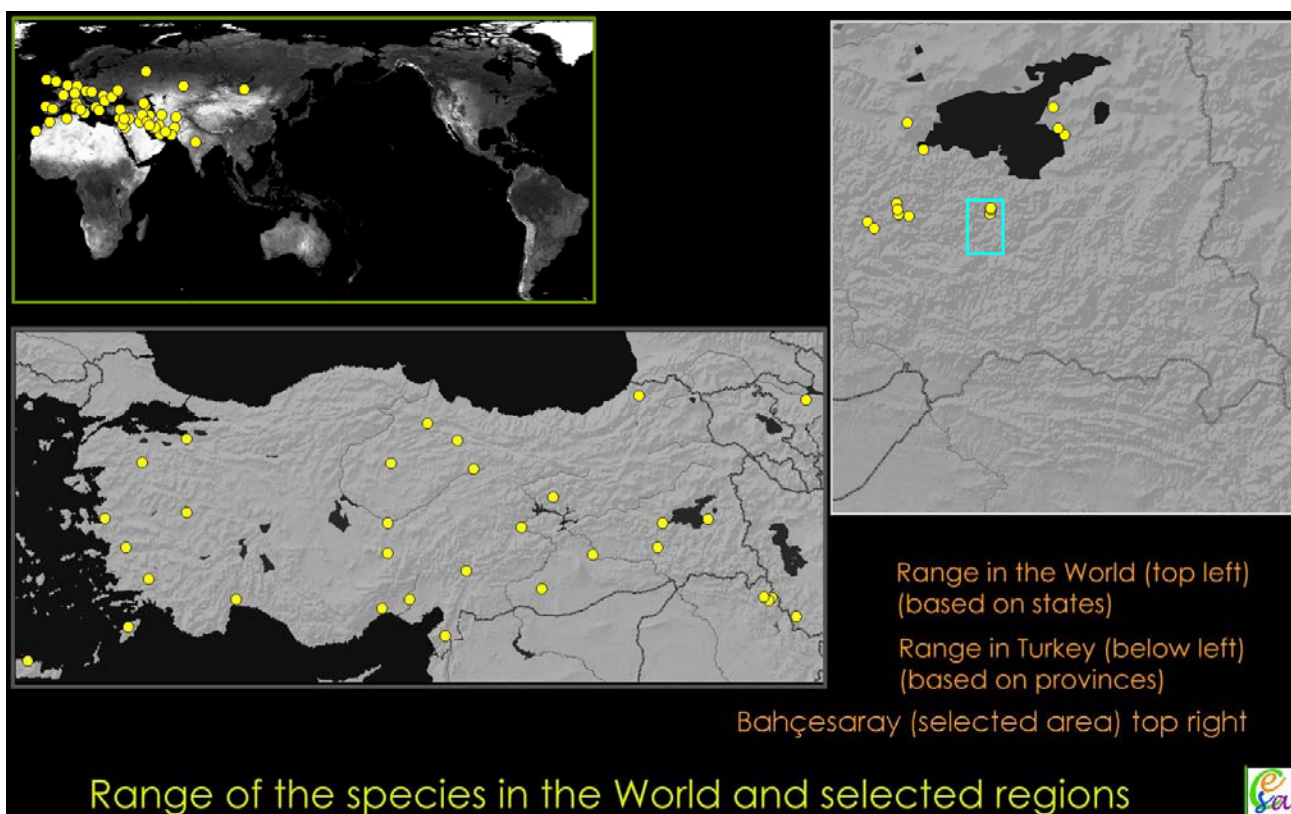


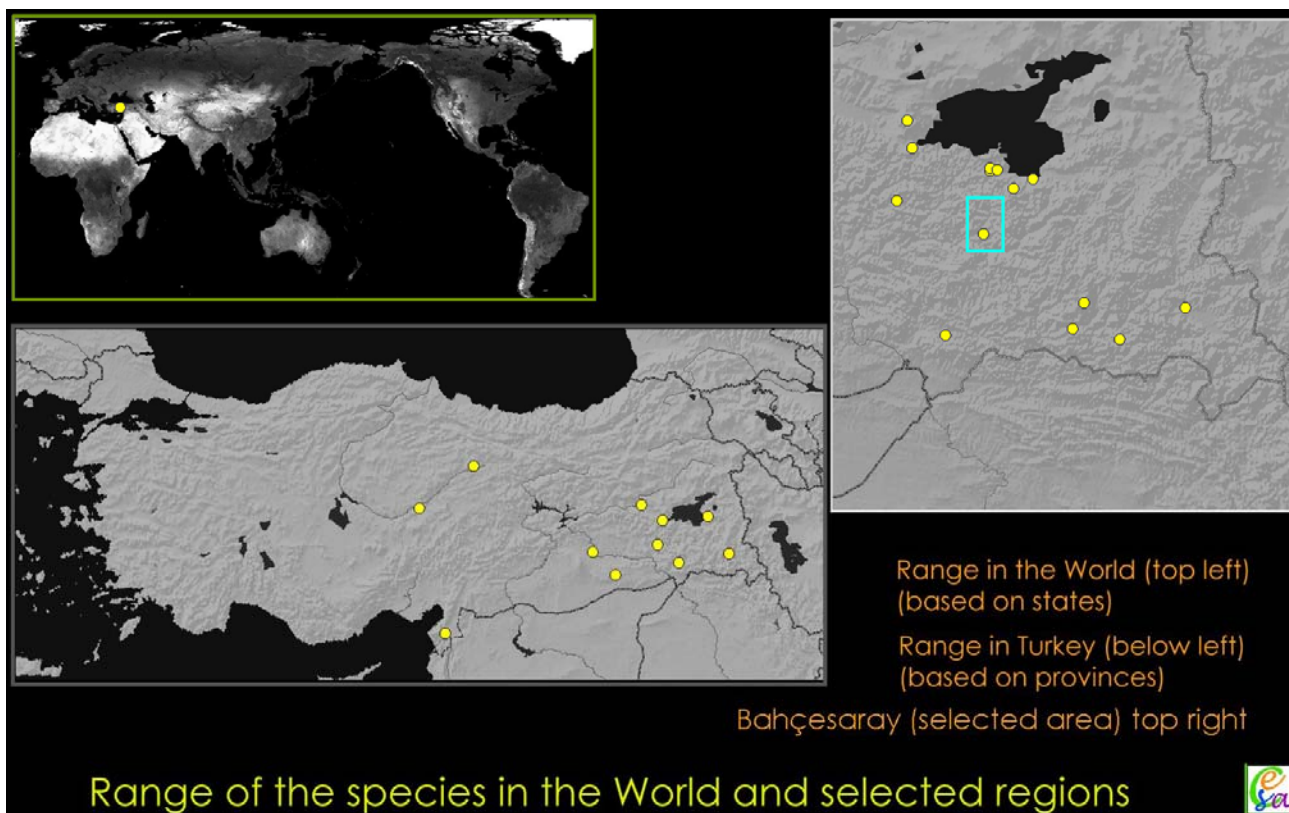
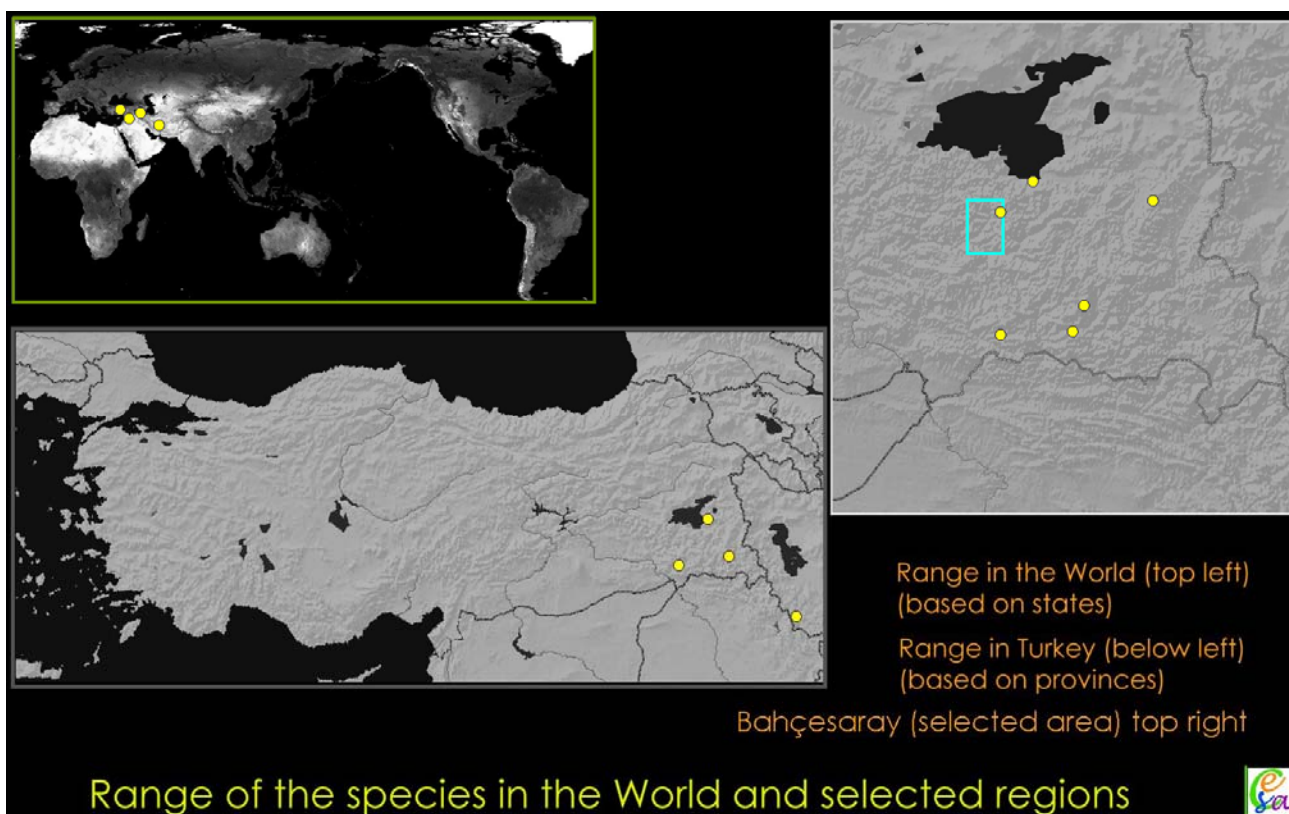
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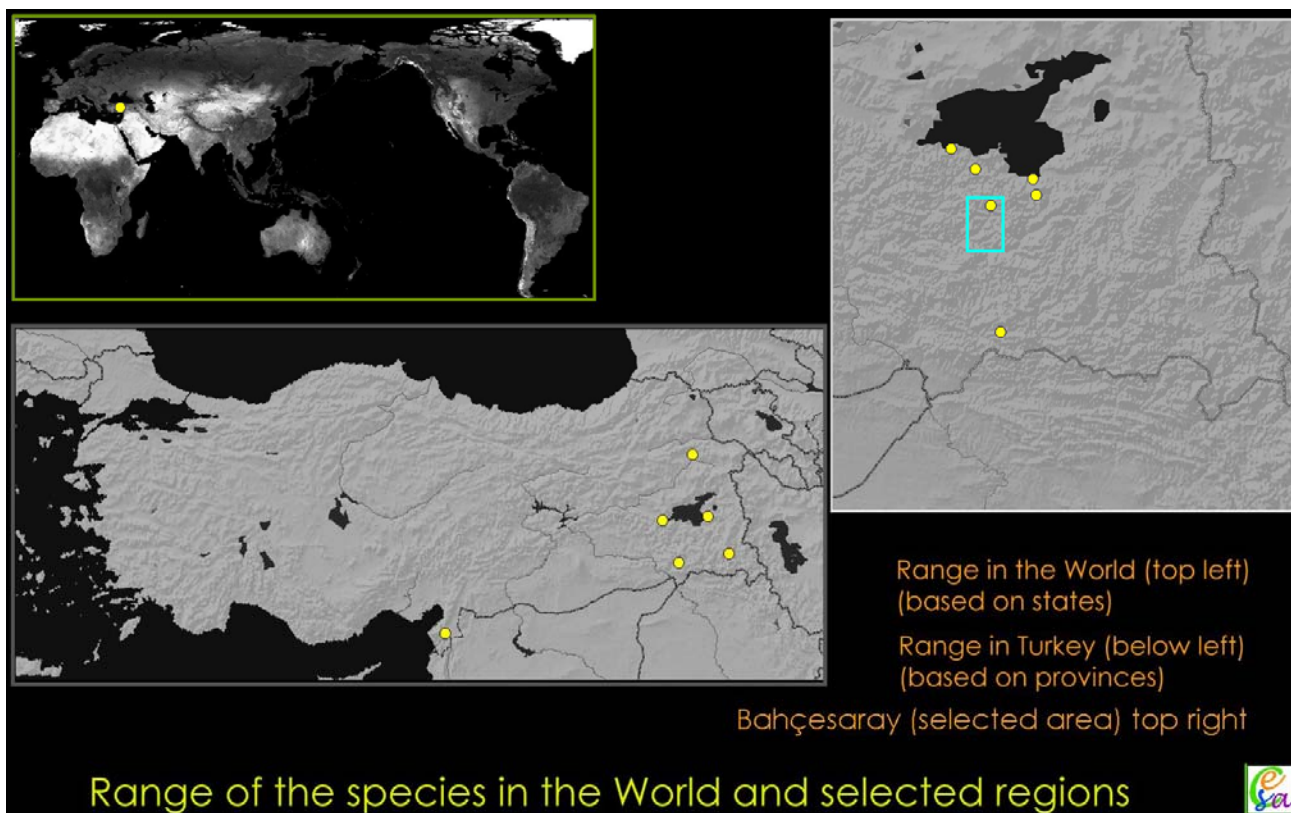
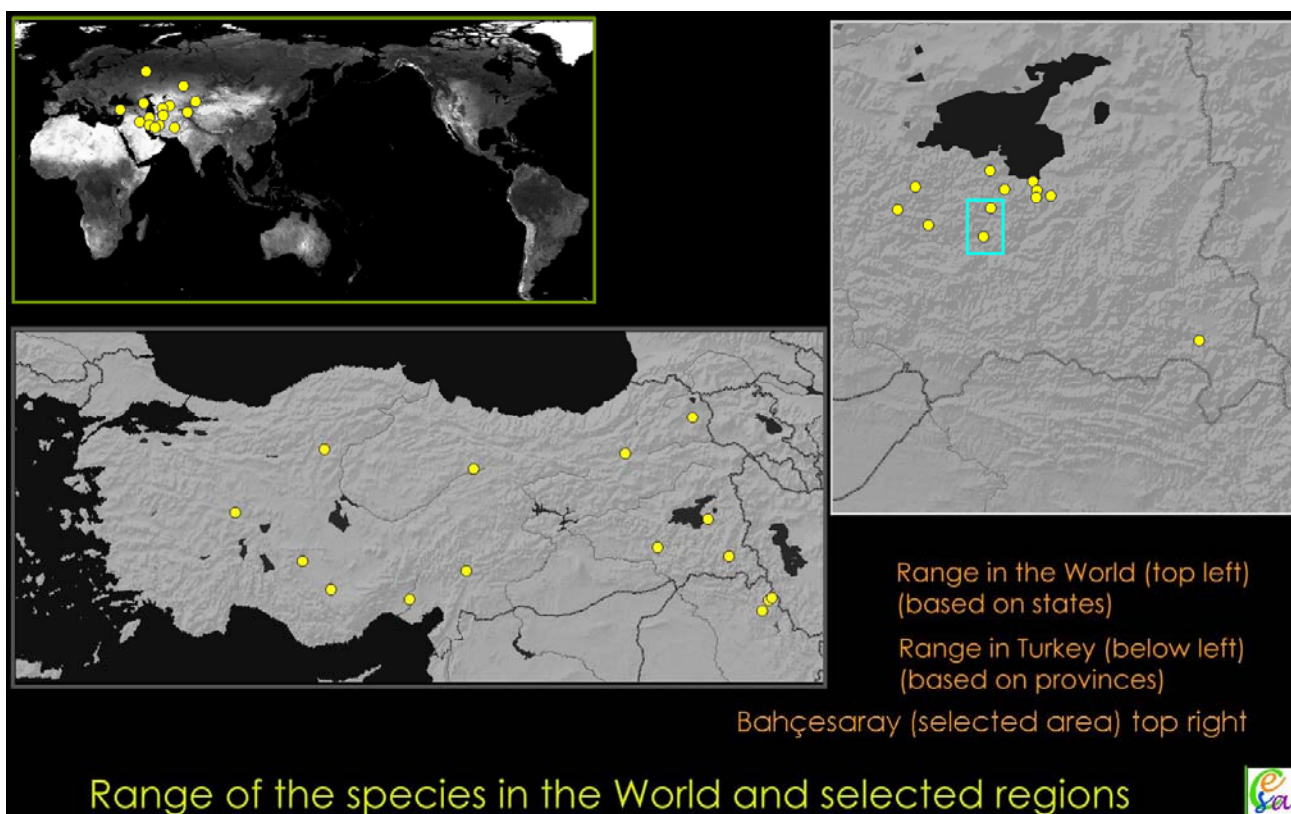


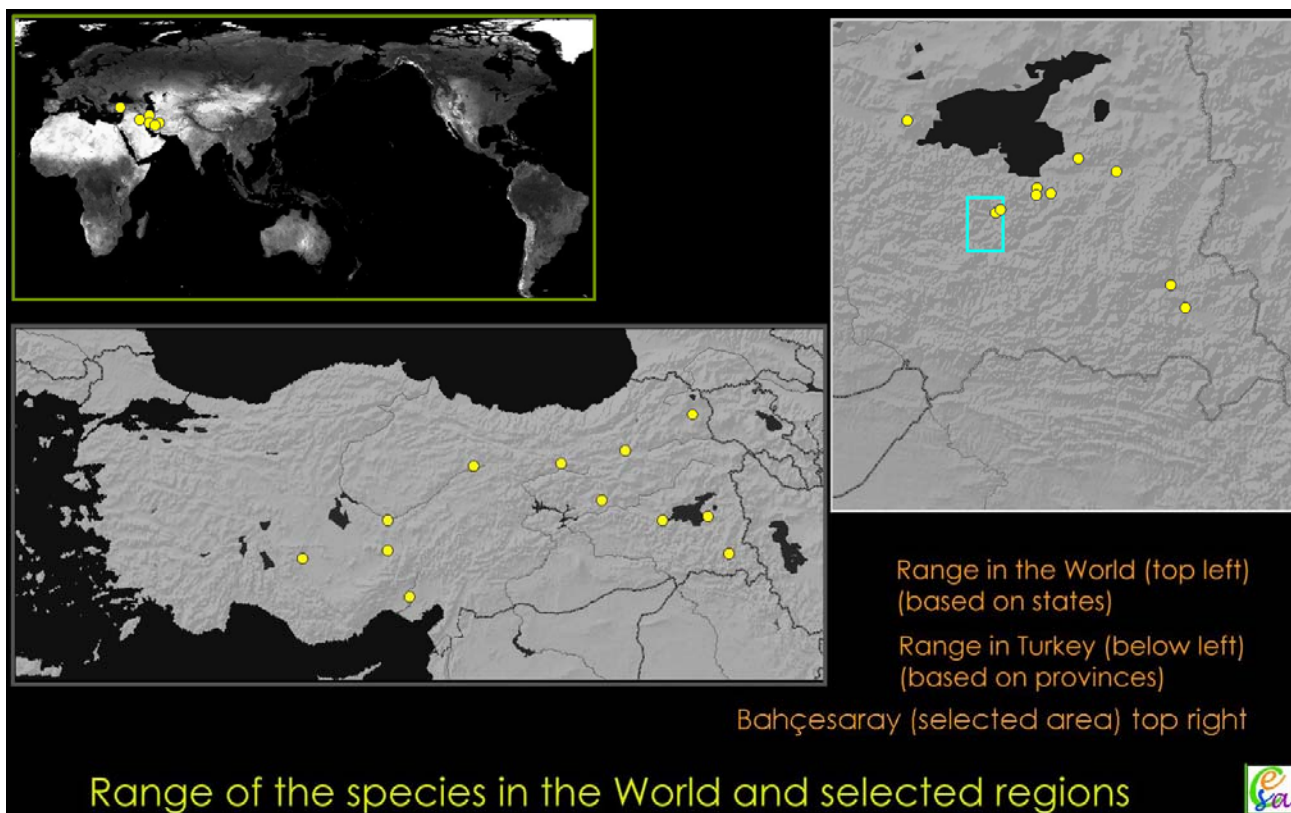
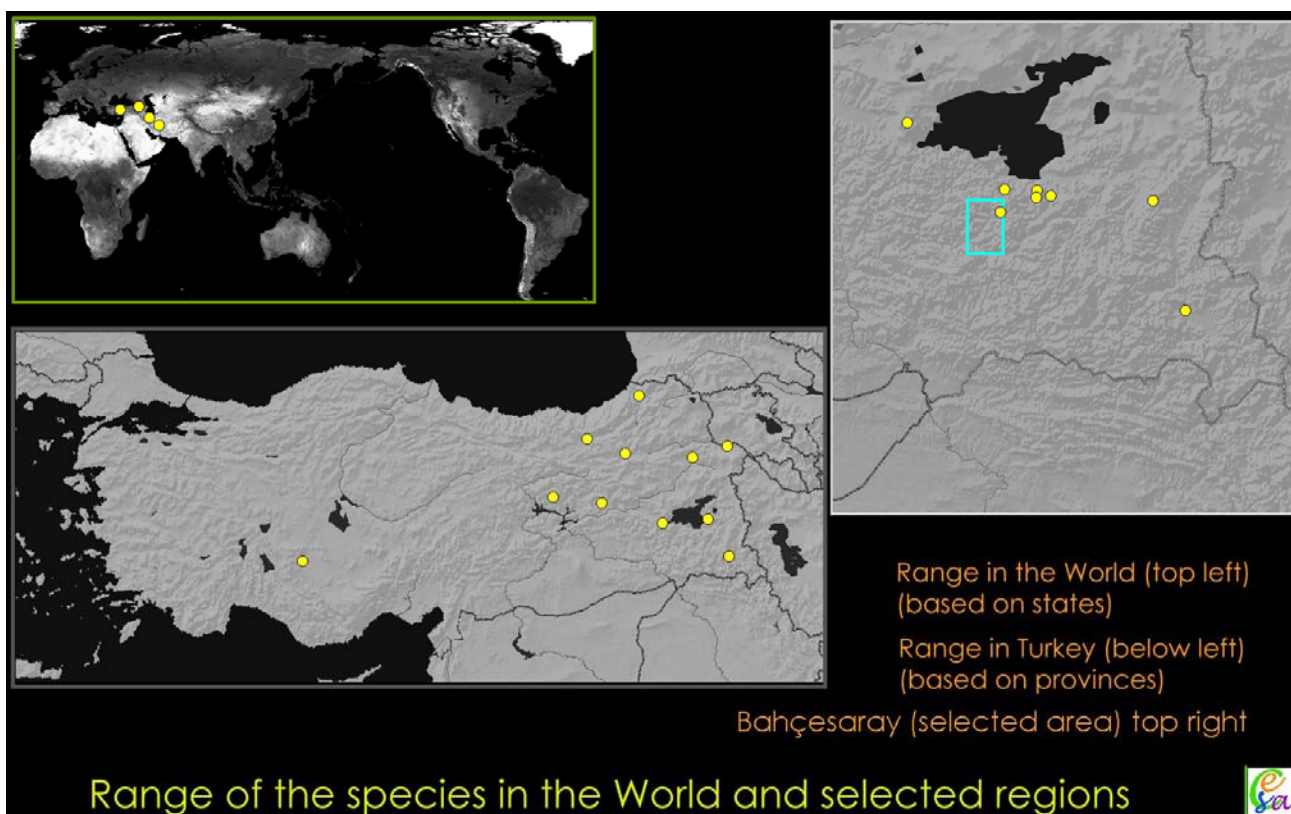
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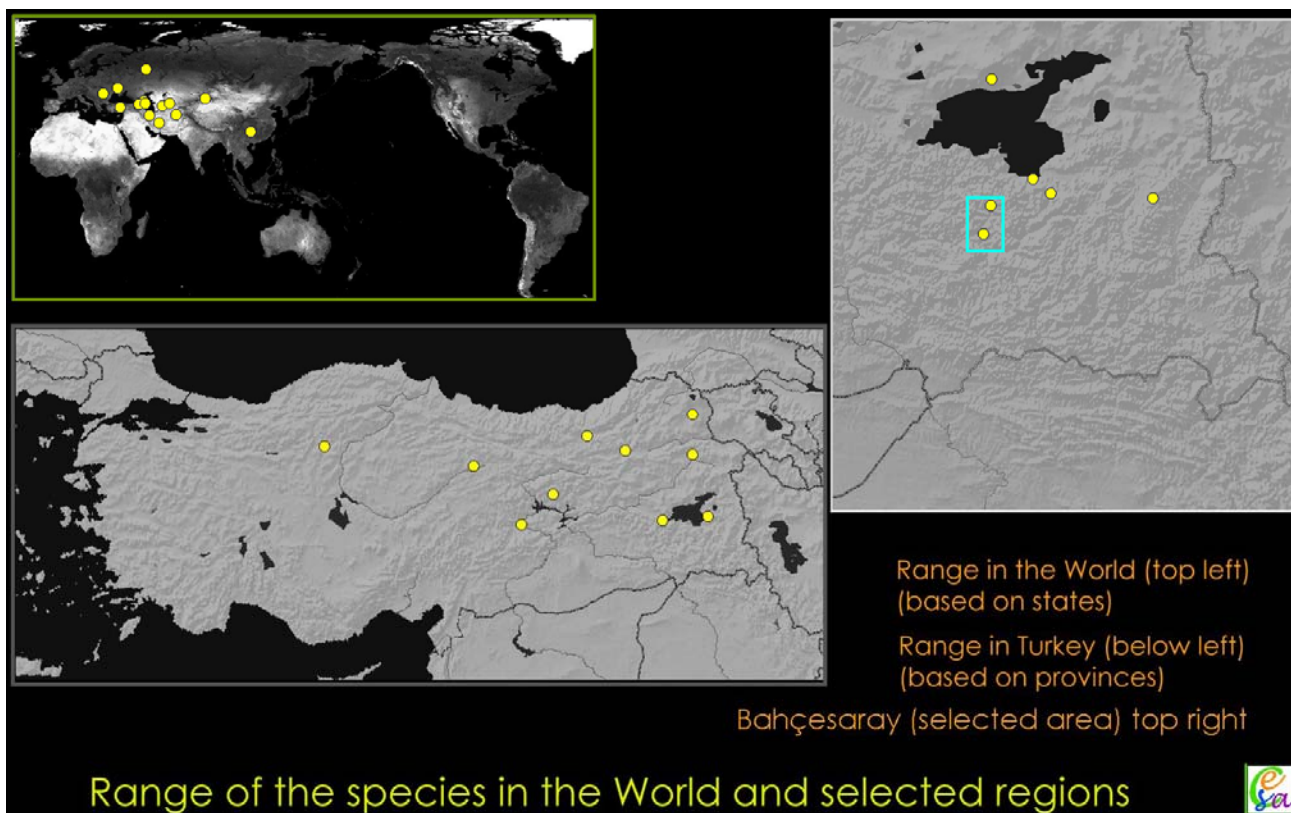
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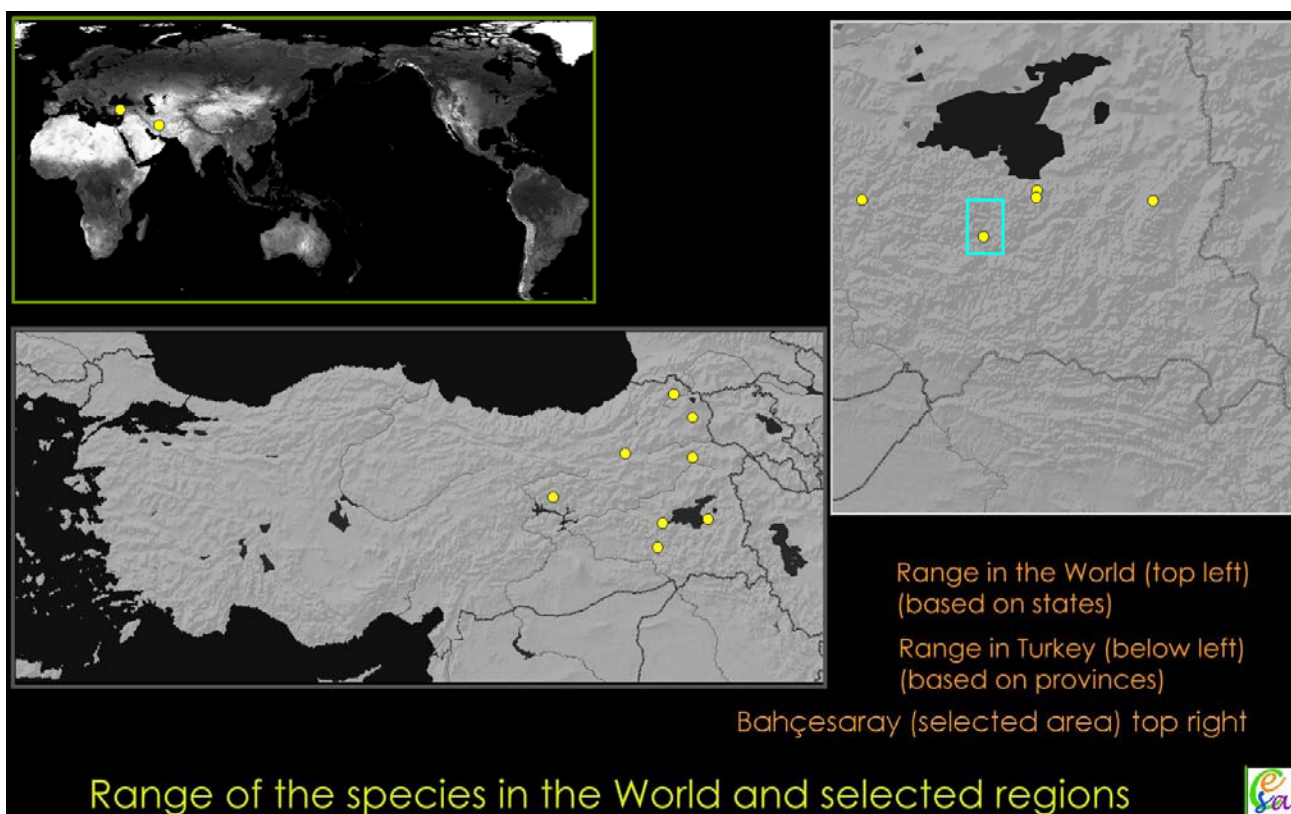
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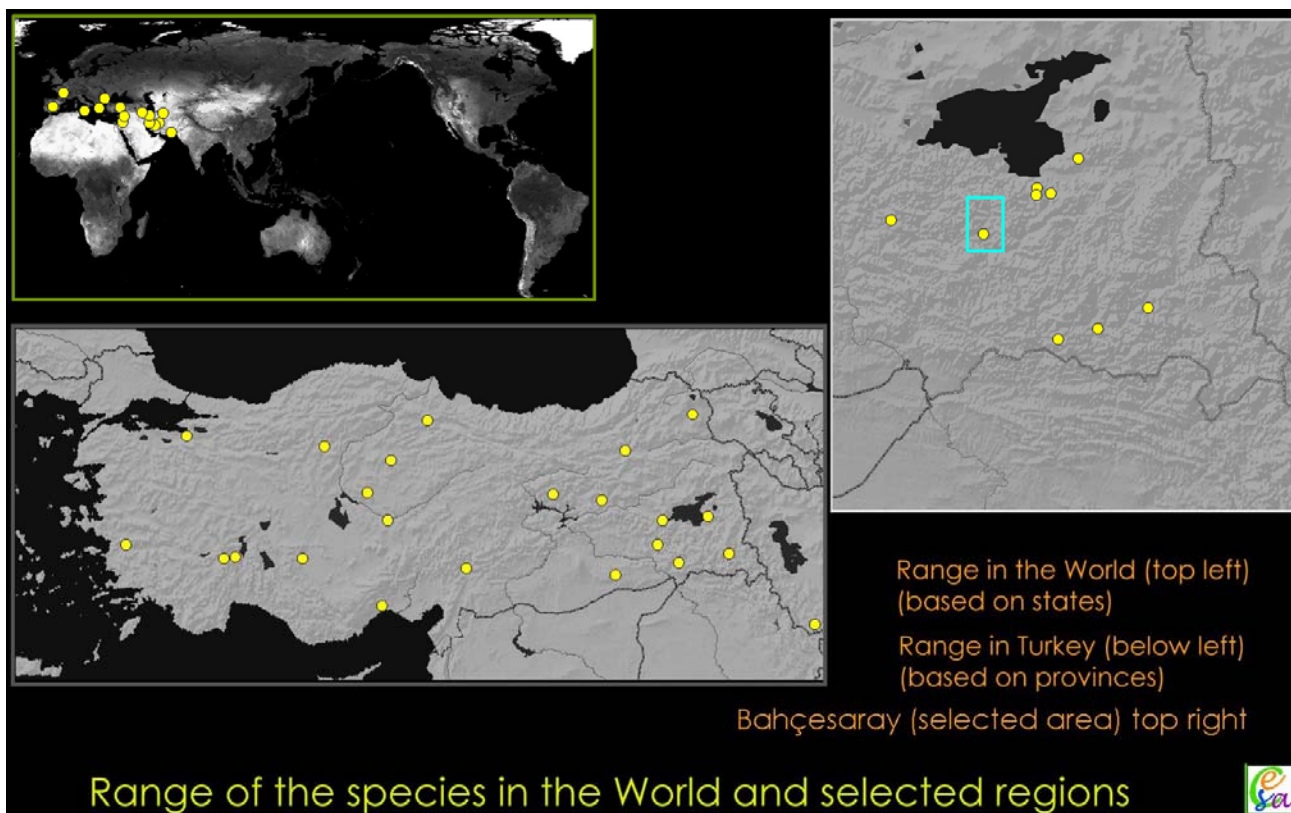
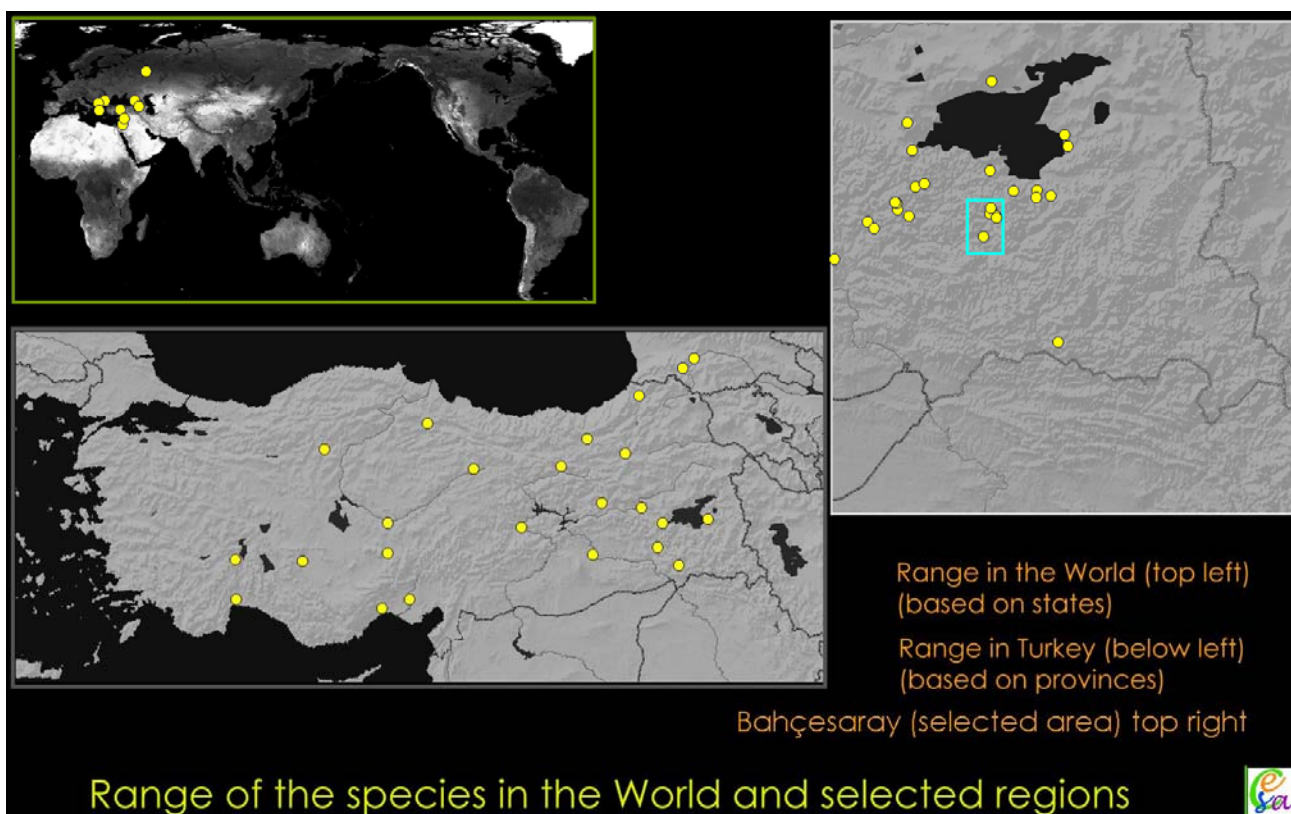
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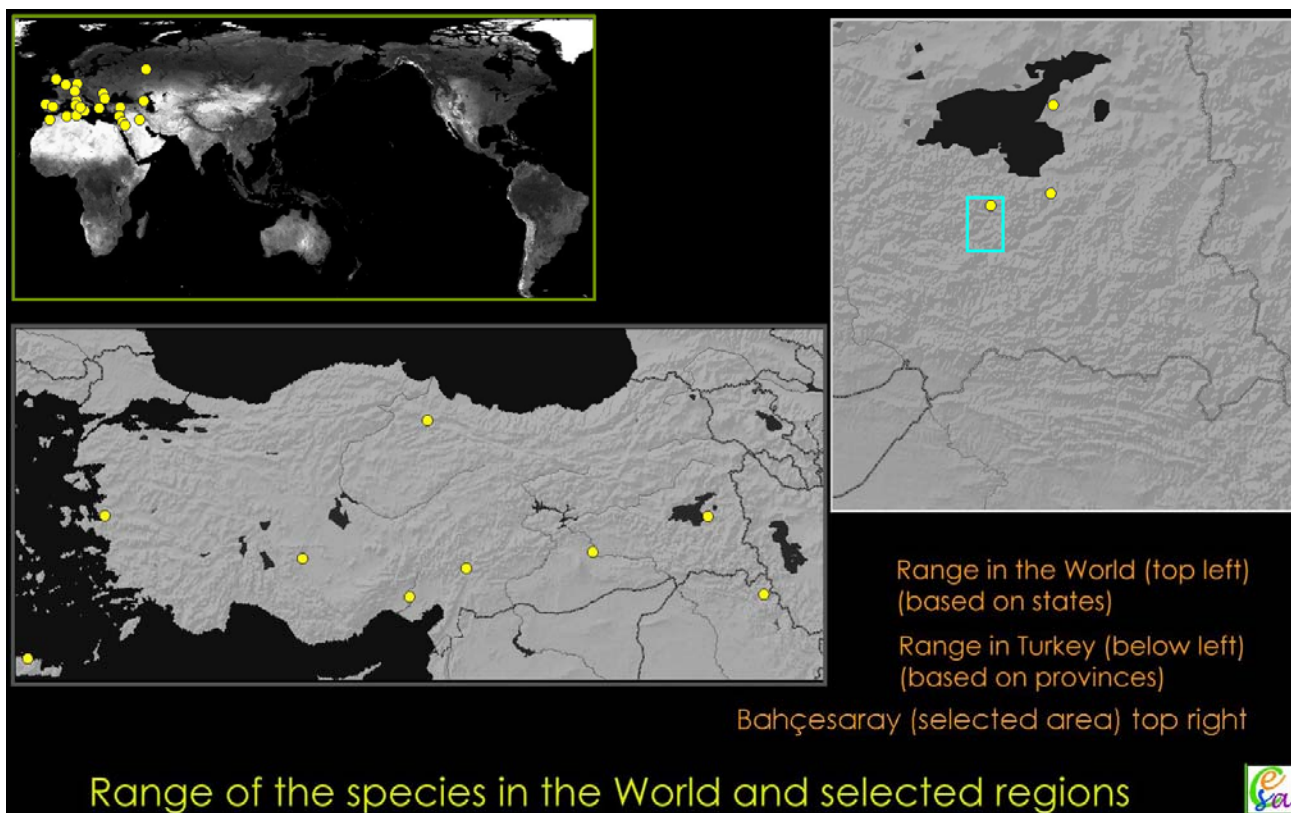
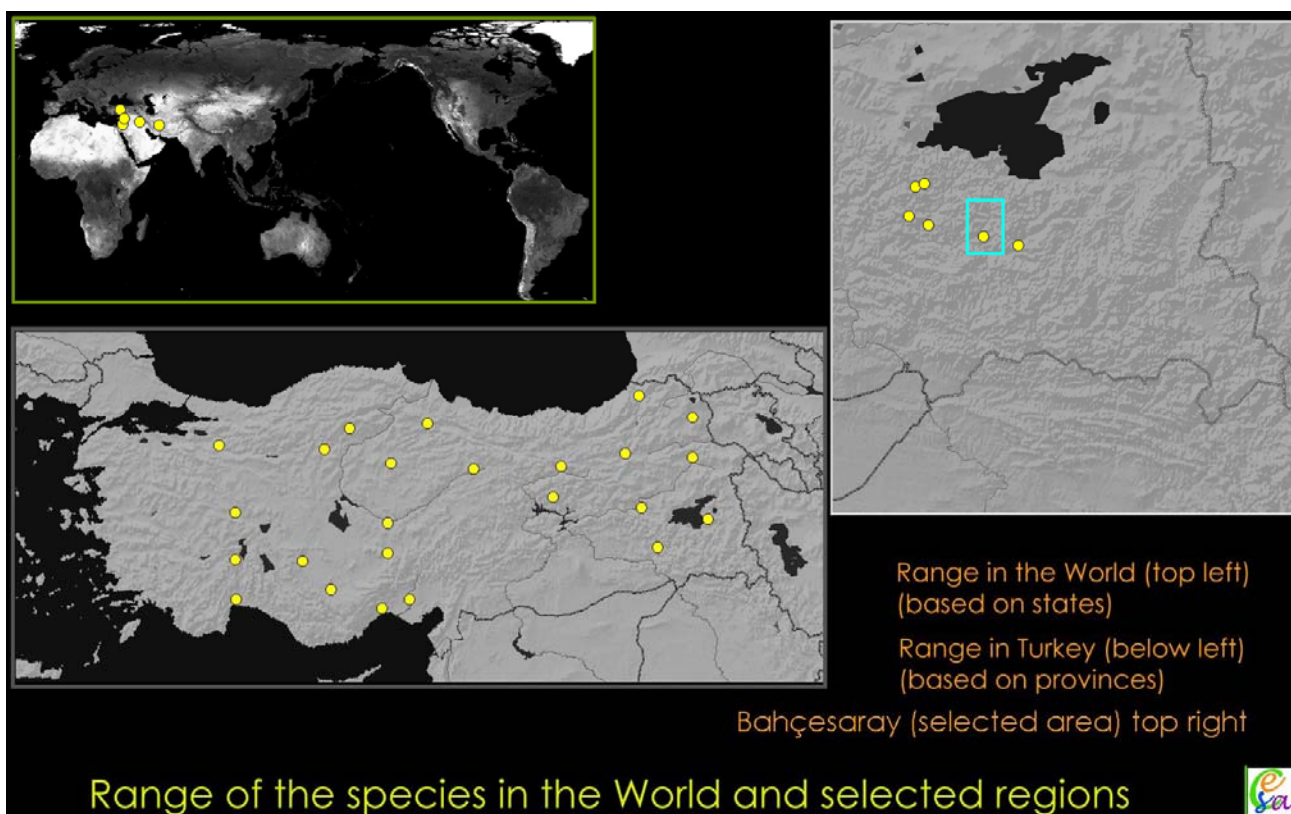


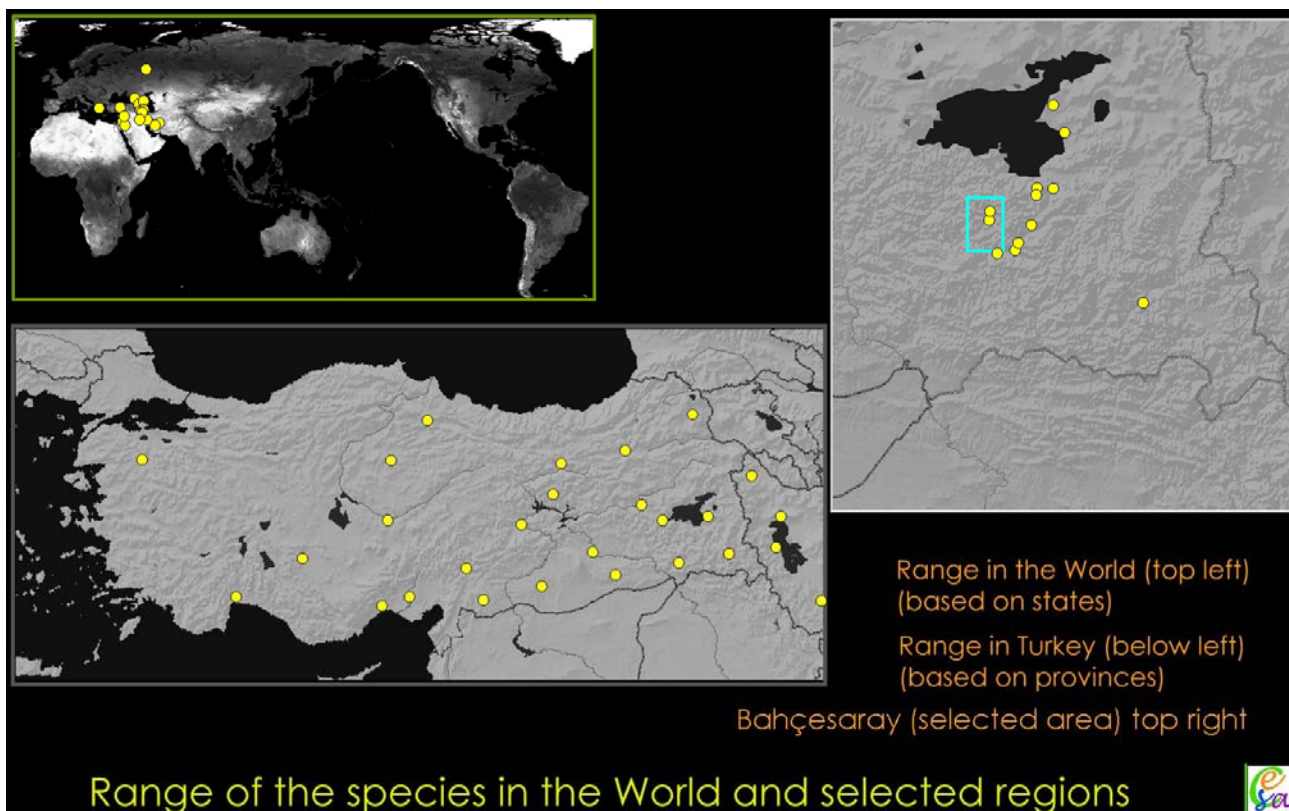
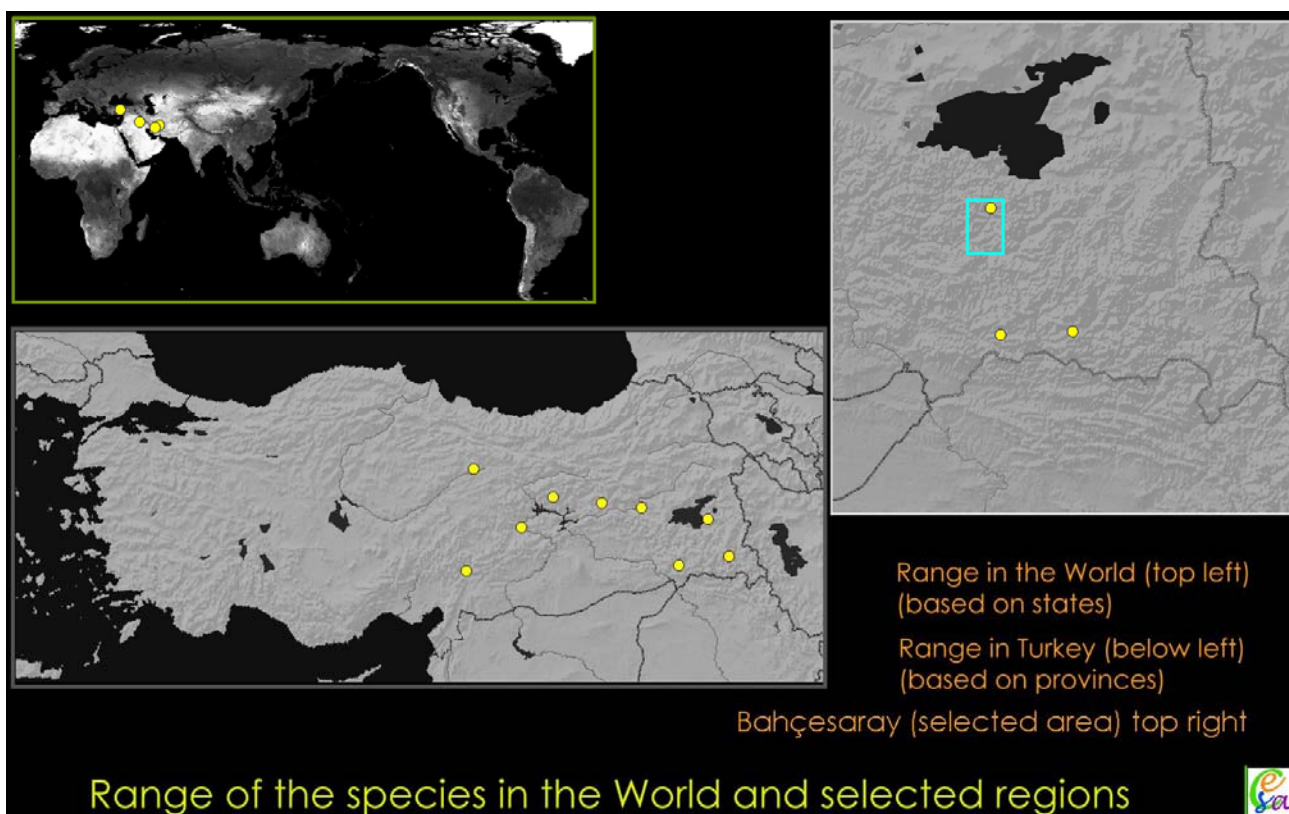
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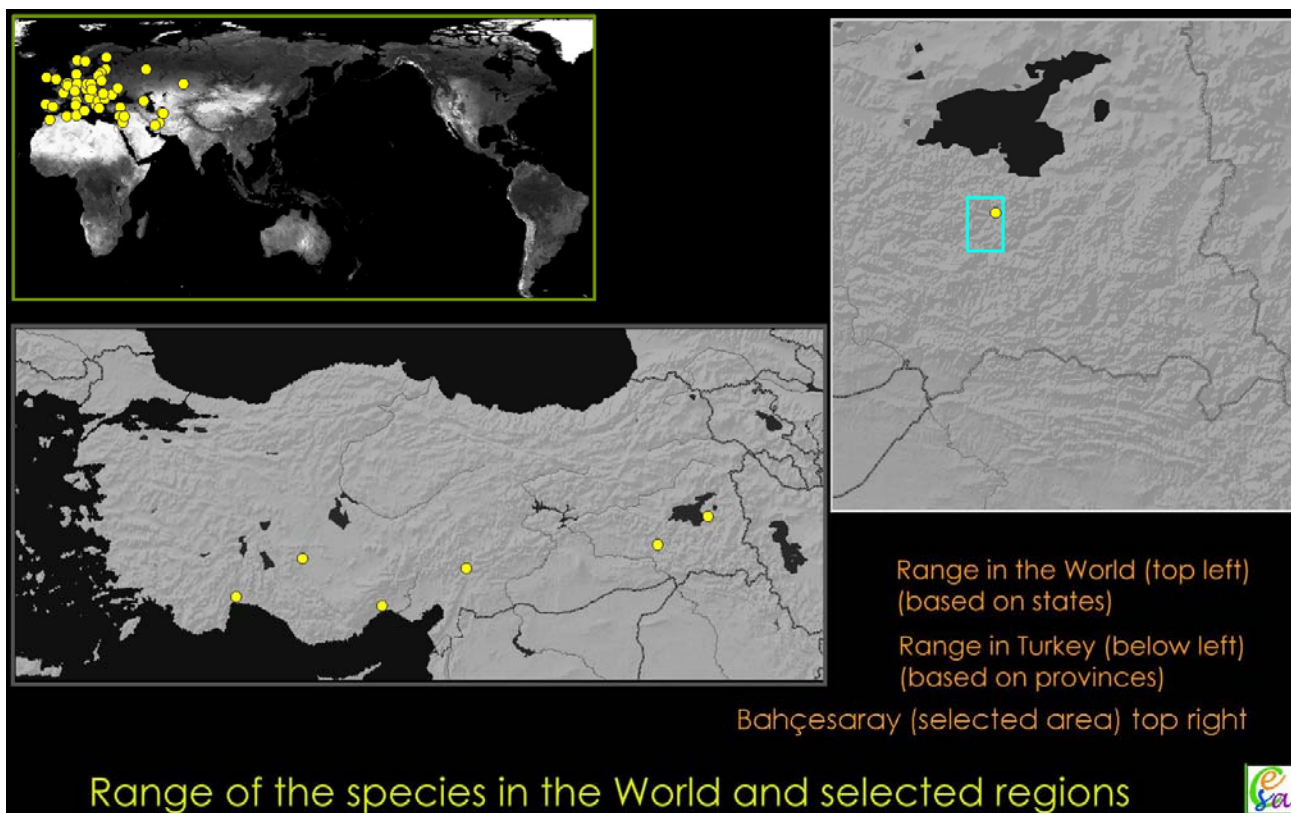
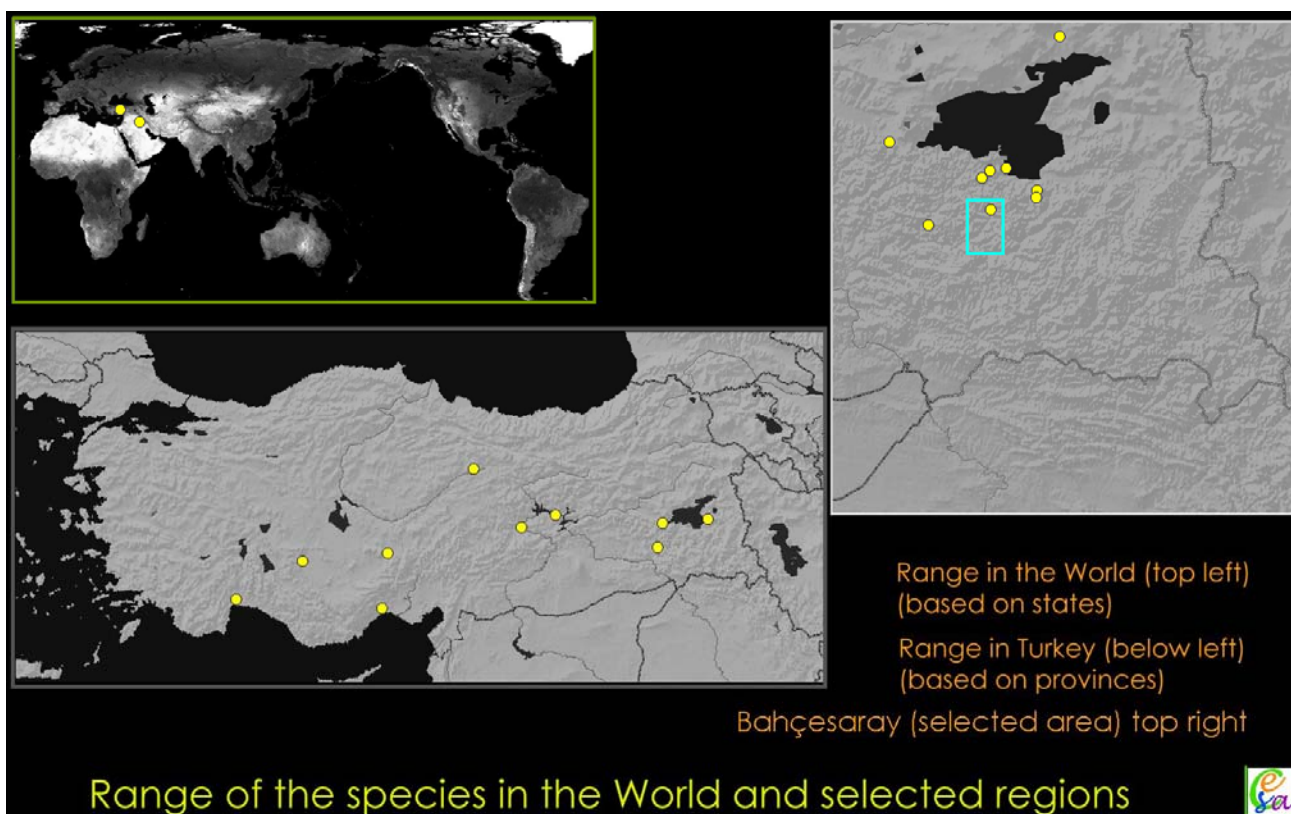


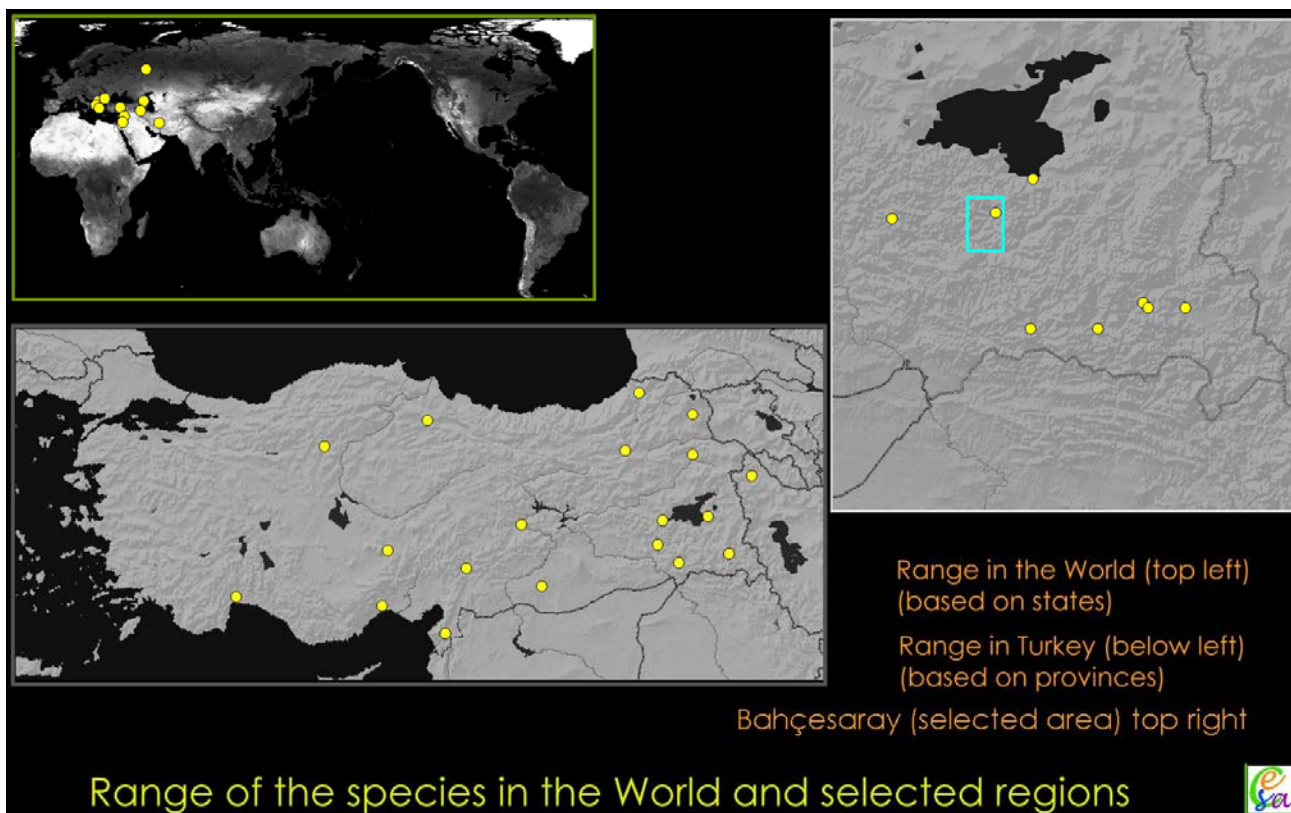
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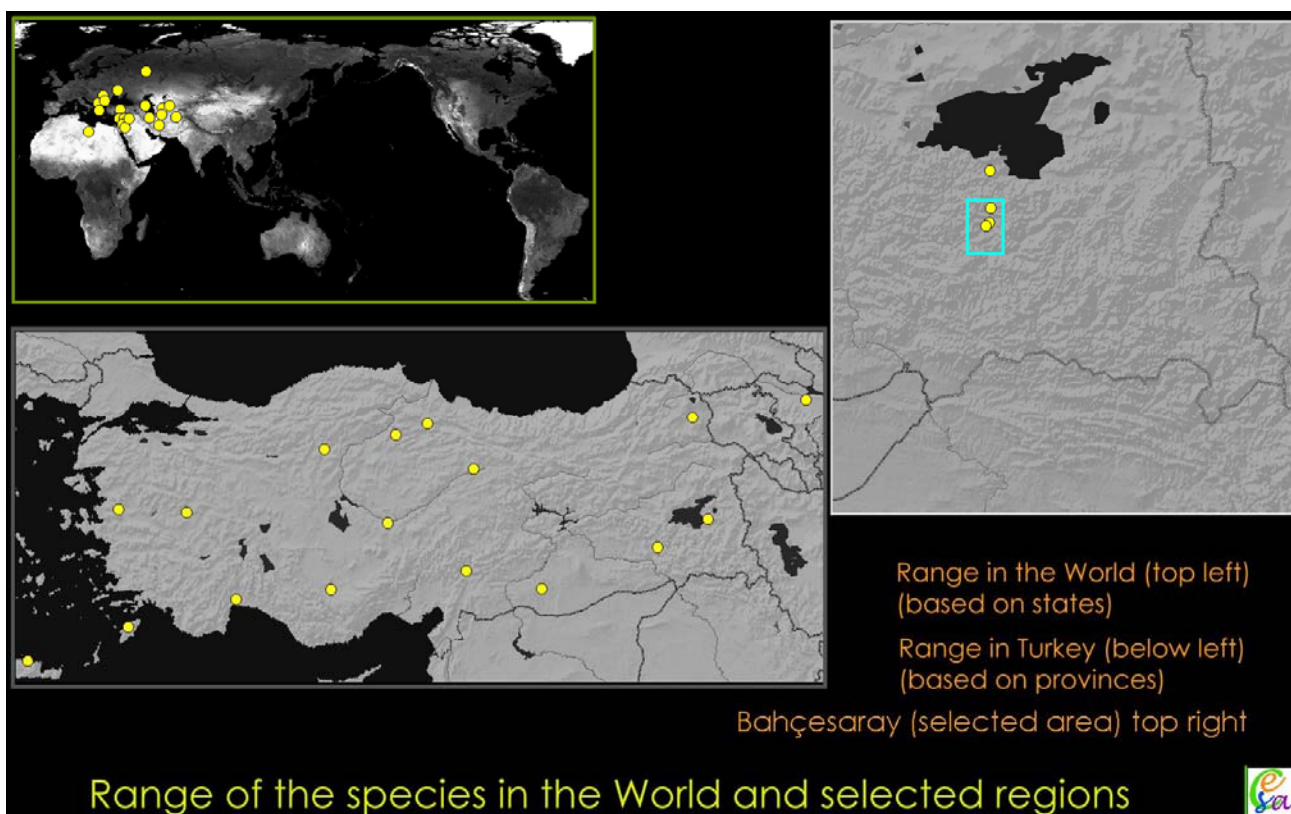
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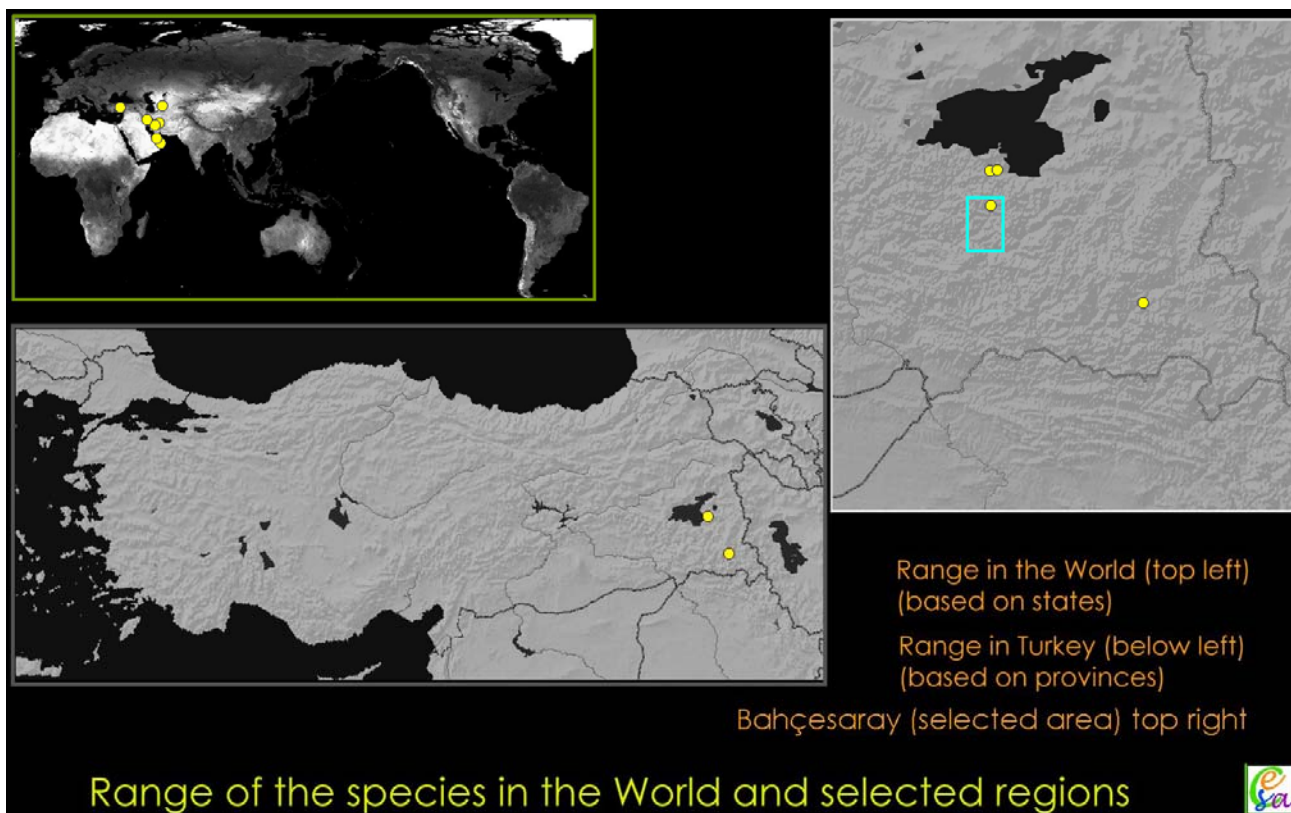
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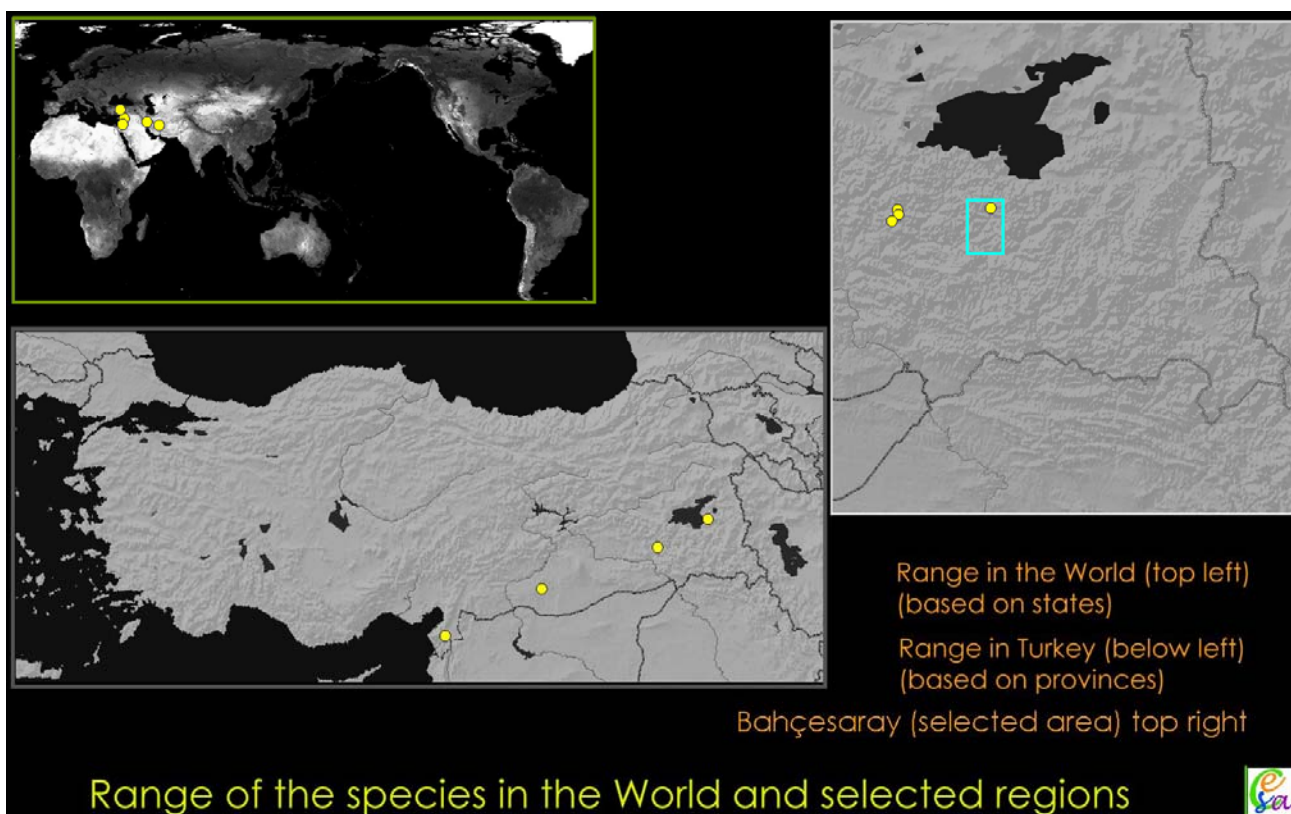
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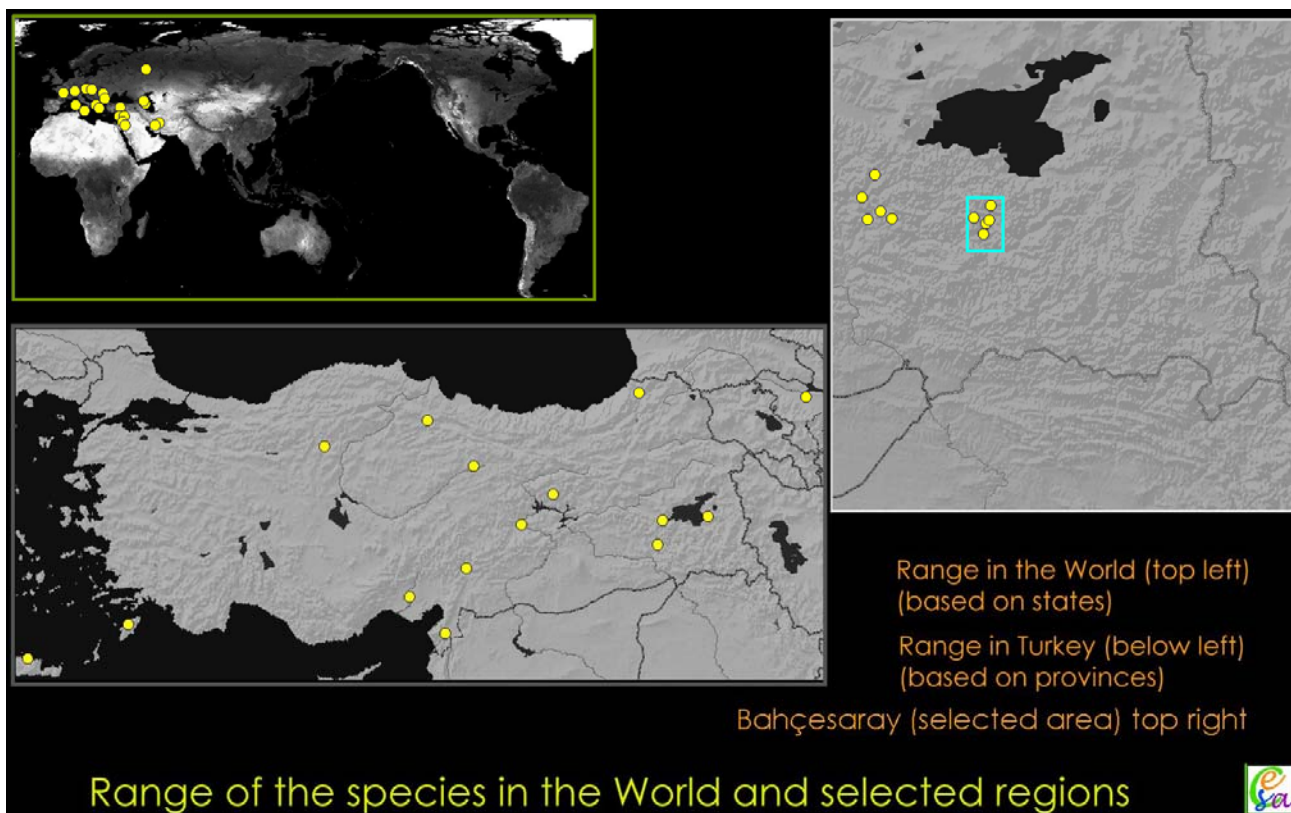
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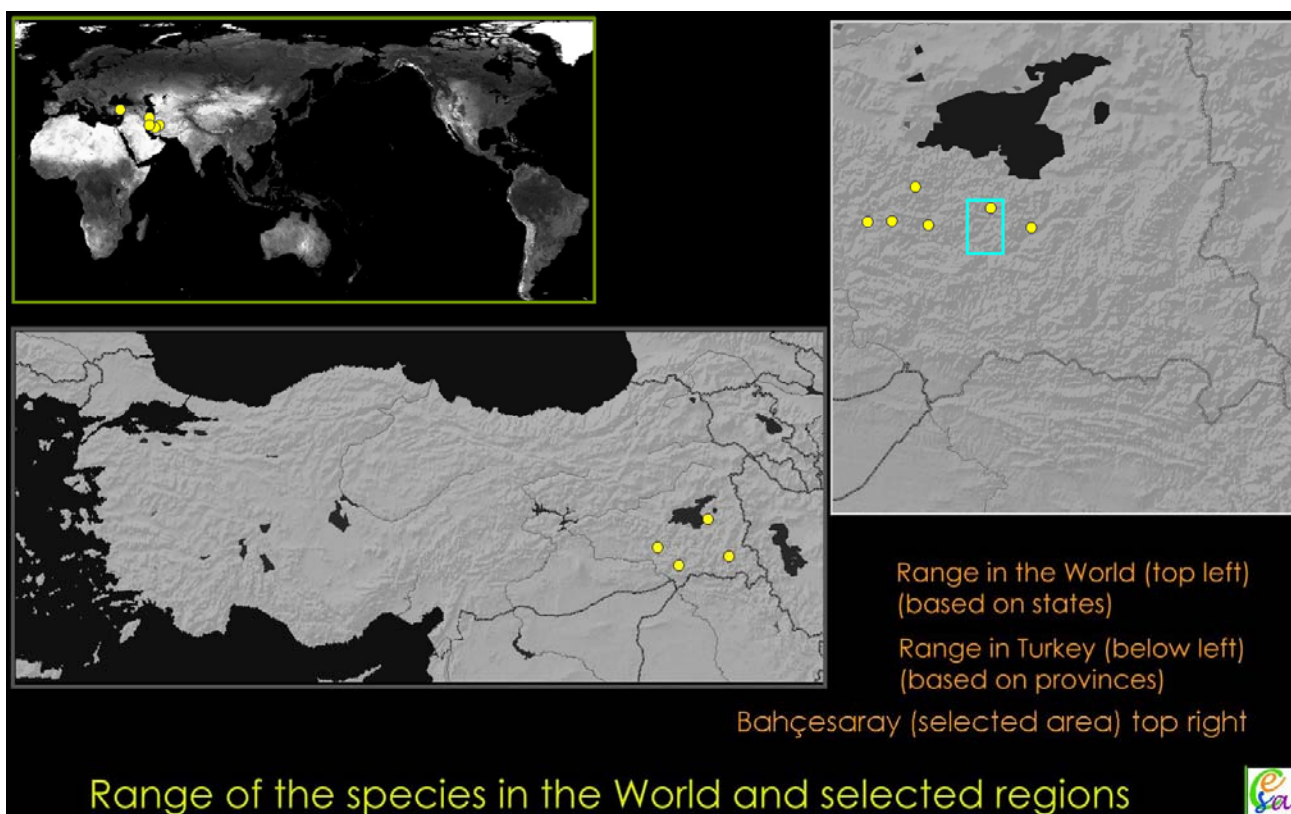
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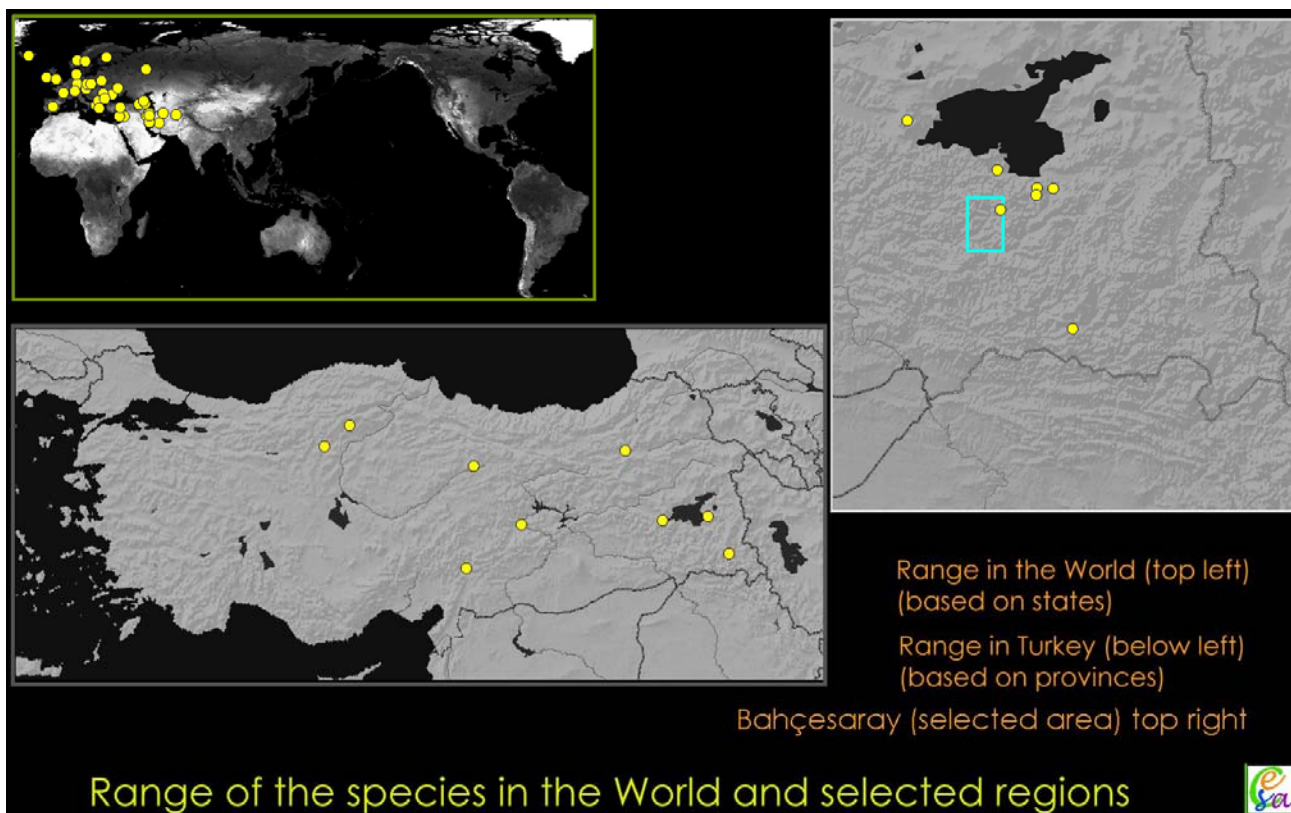
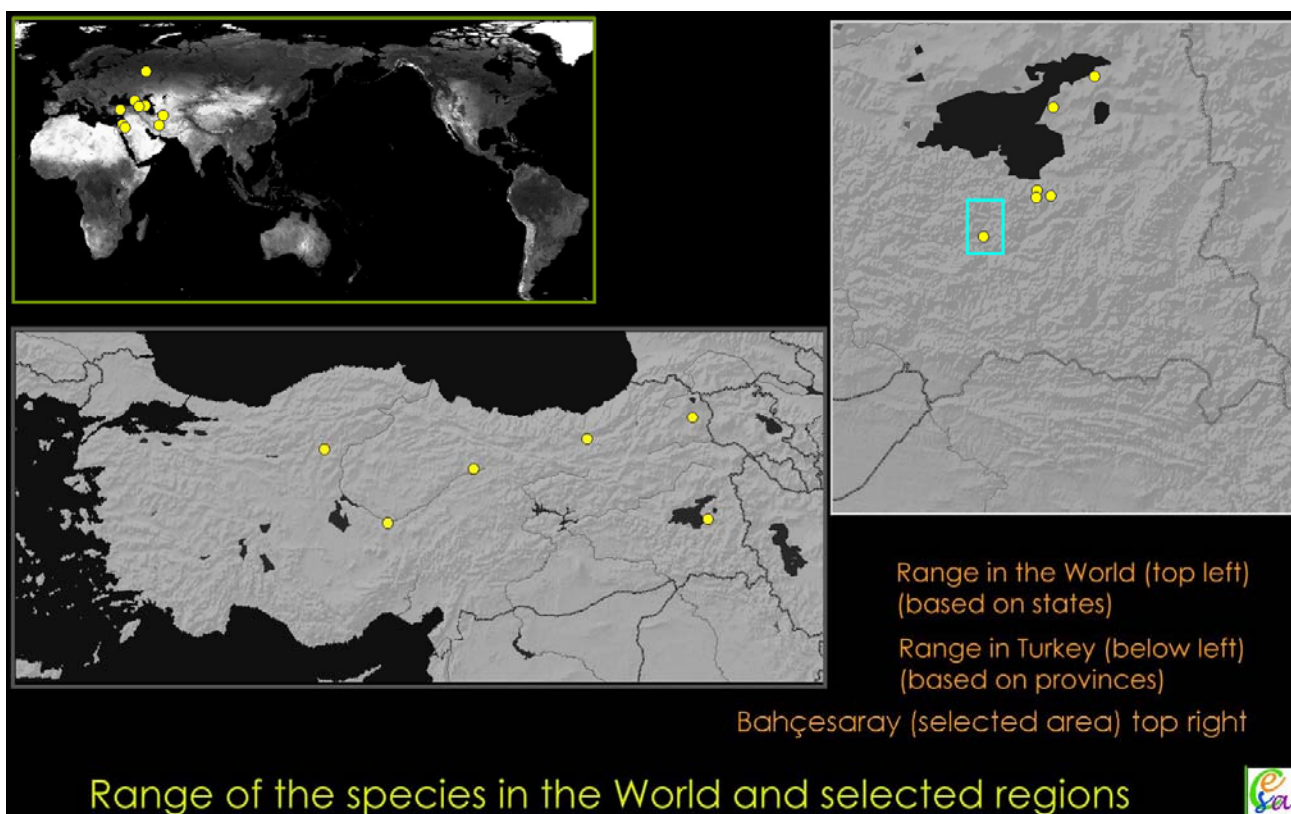
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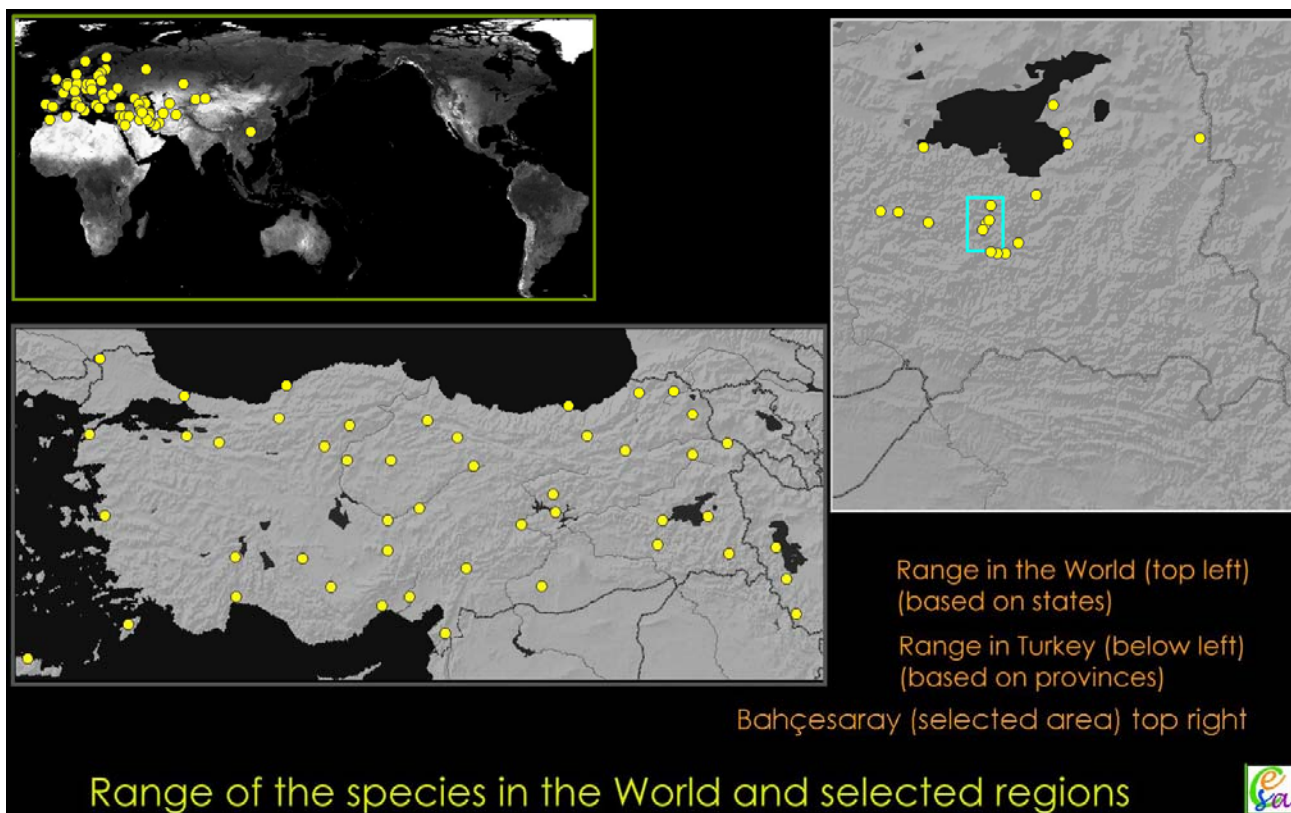
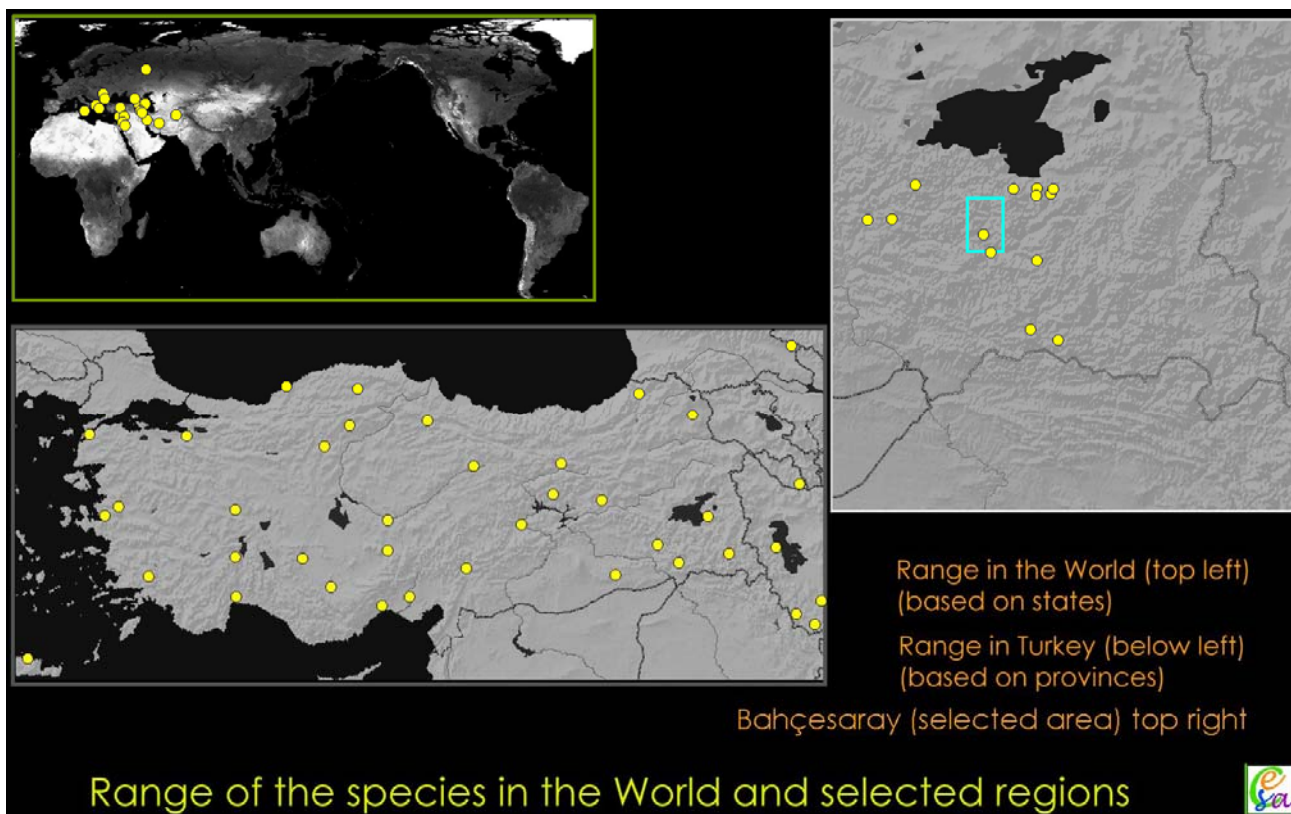


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